

FIG. 1D (Prior Art)

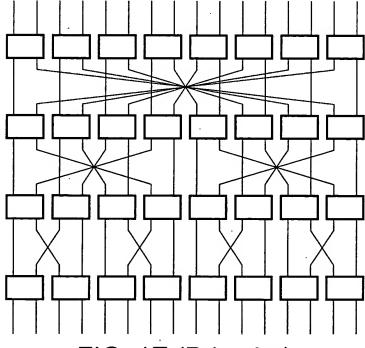


FIG. 1E (Prior Art)

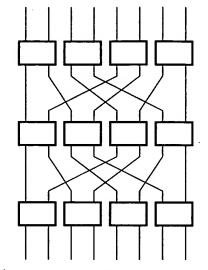


FIG. 1F (Prior Art)

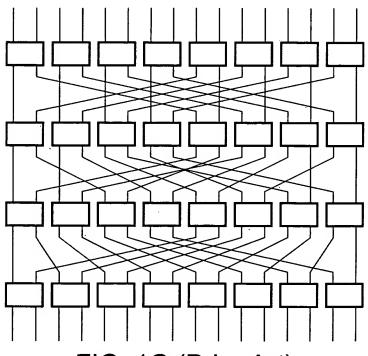


FIG. 1G (Prior Art)

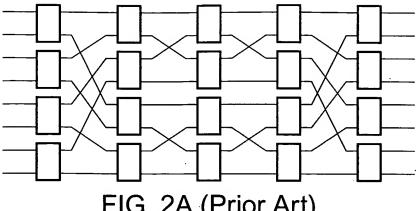


FIG. 2A (Prior Art)

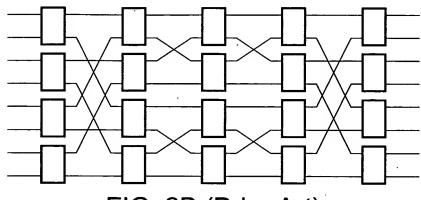


FIG. 2B (Prior Art)

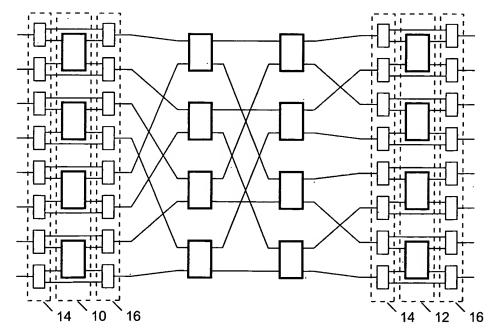


FIG. 2C (Prior Art)

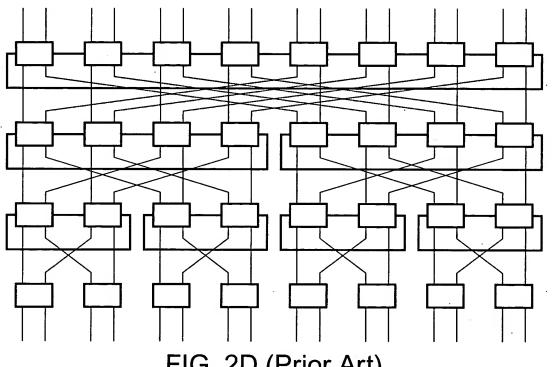


FIG. 2D (Prior Art)

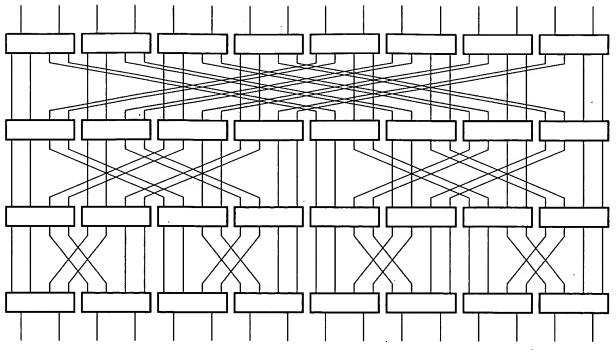
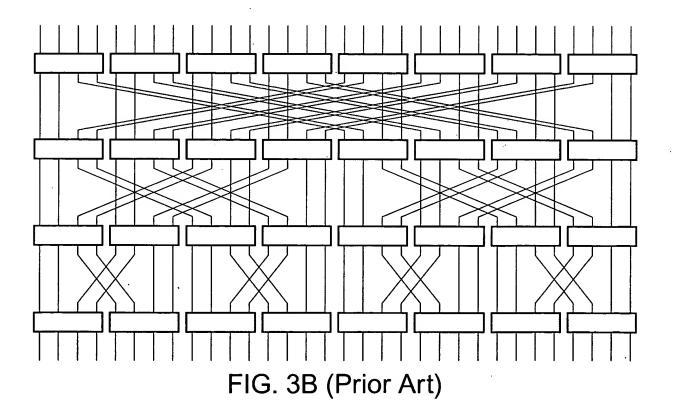


FIG. 3A (Prior Art)



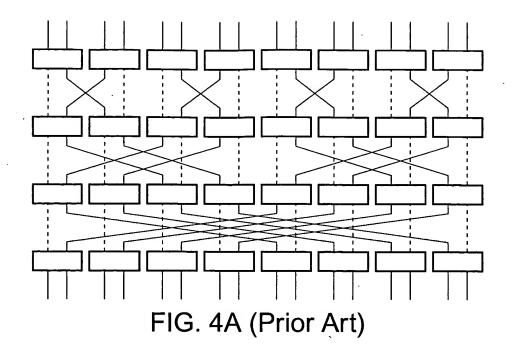
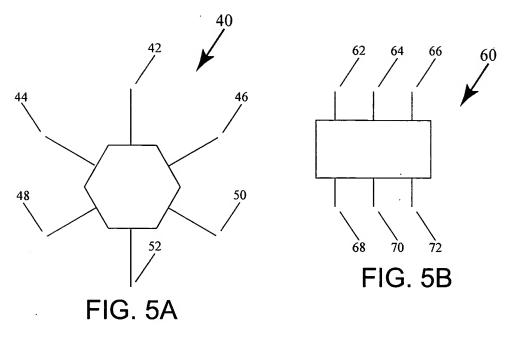


FIG. 4B (Prior Art)



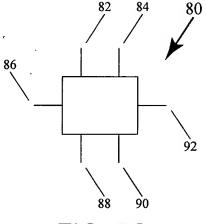
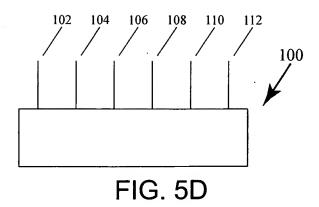
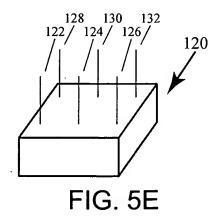


FIG. 5C





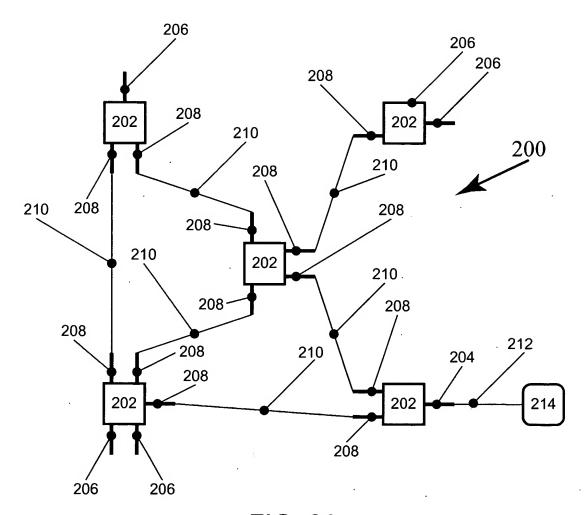
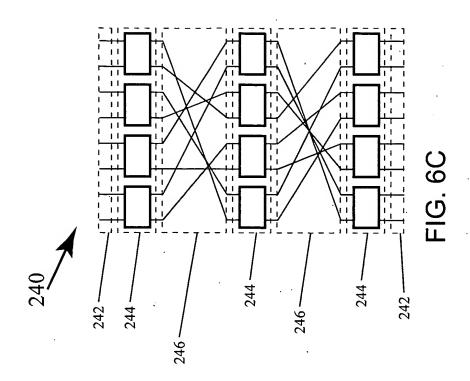
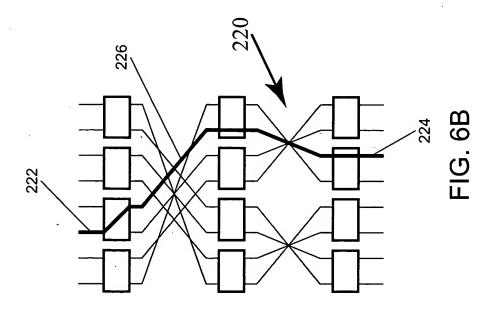


FIG. 6A





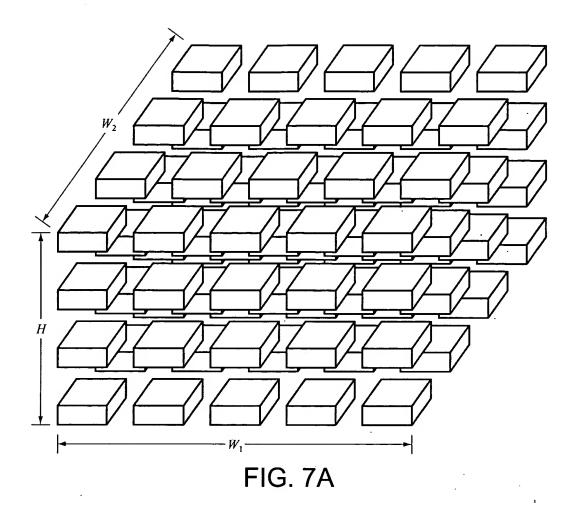
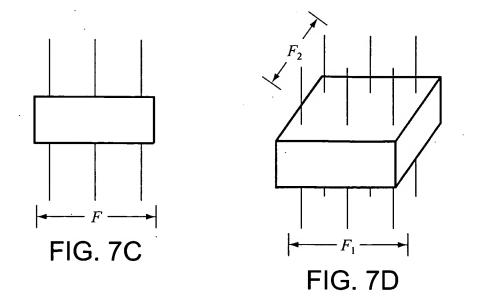


FIG. 7B



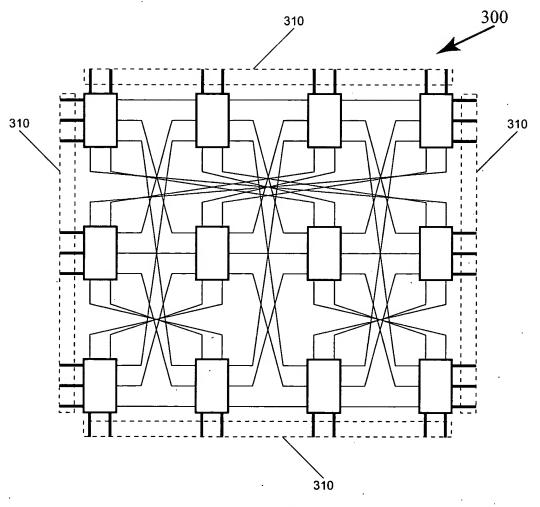
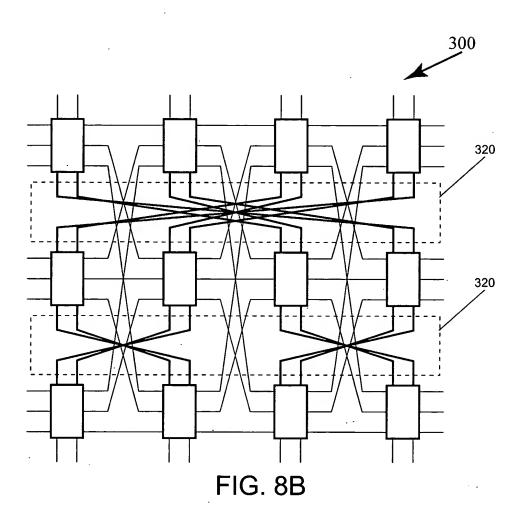
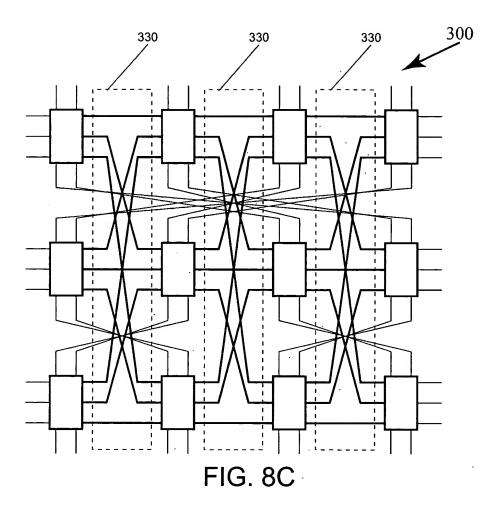
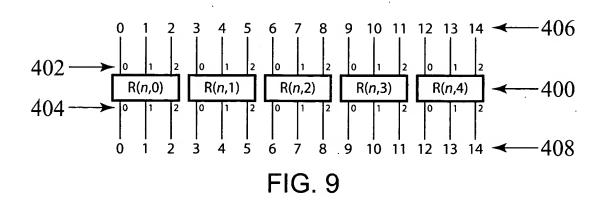
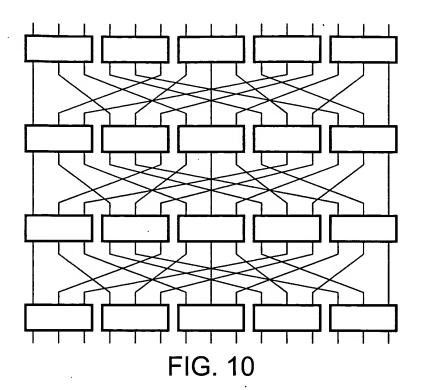


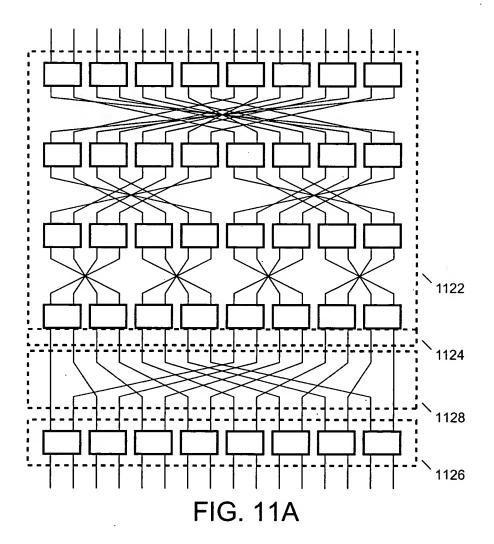
FIG. 8A

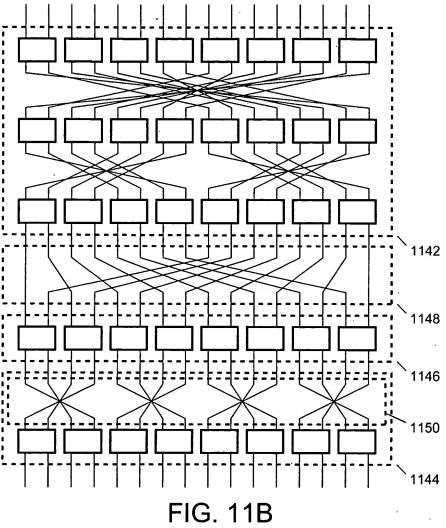












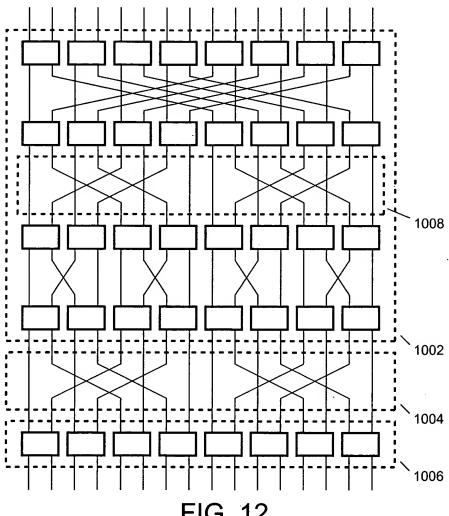
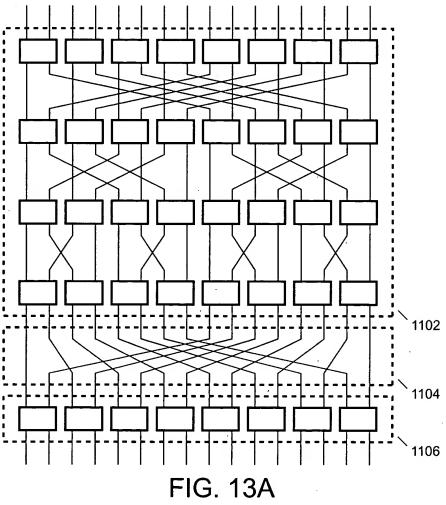
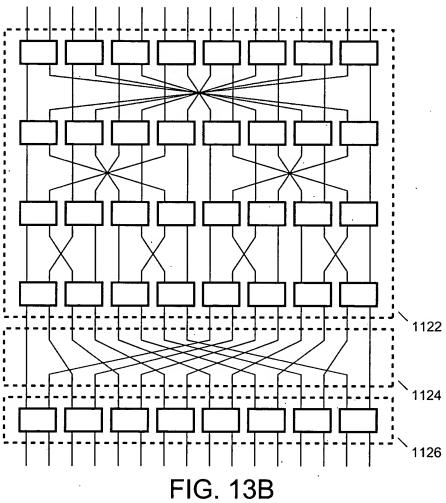
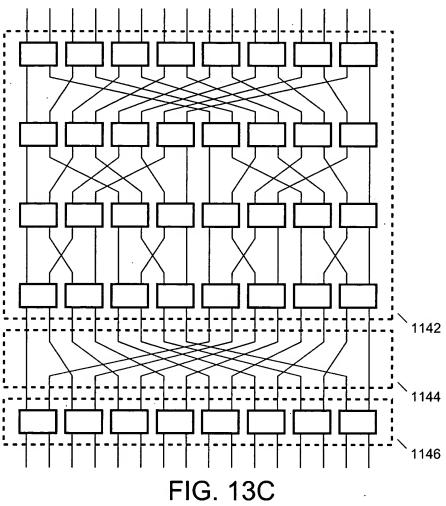
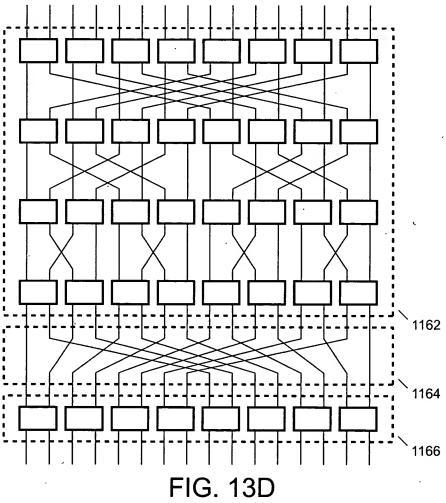


FIG. 12









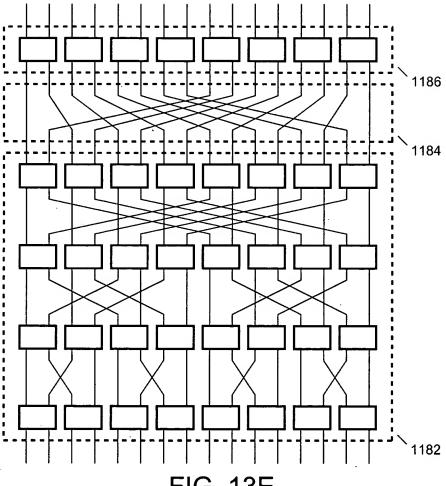
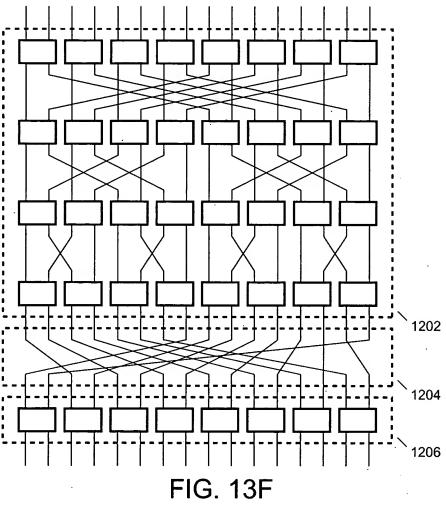
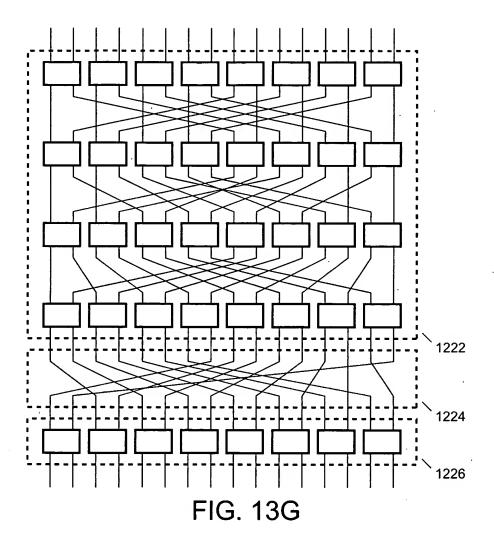
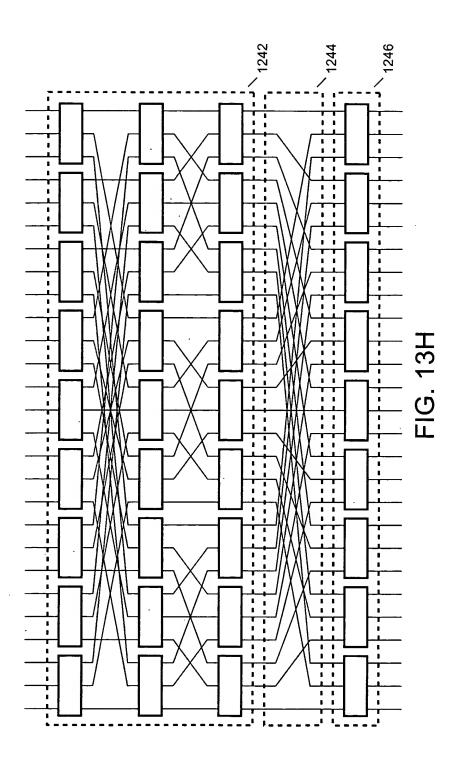


FIG. 13E







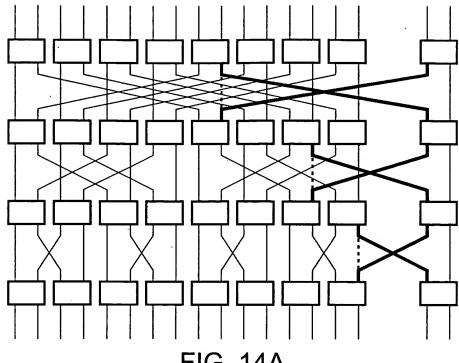


FIG. 14A

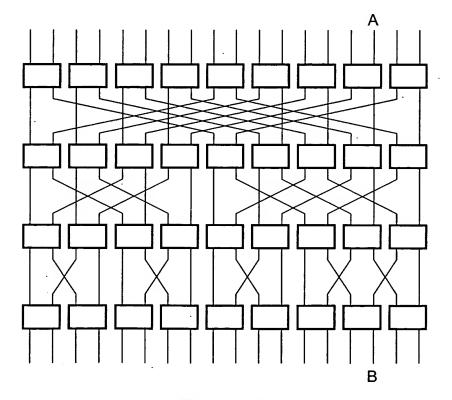
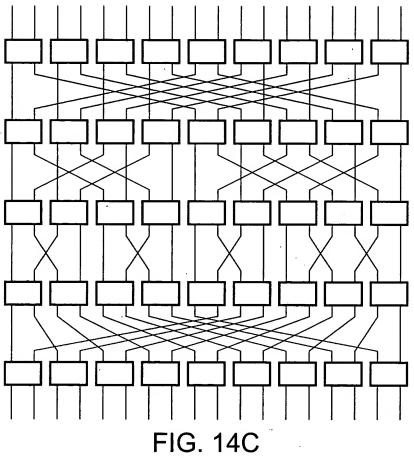


FIG. 14B



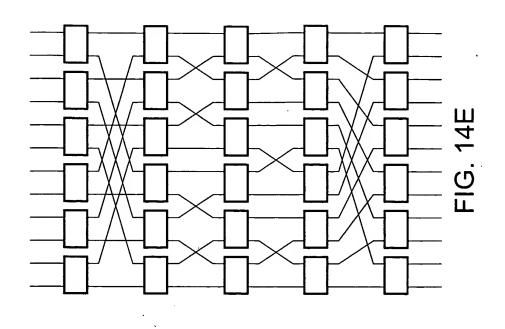
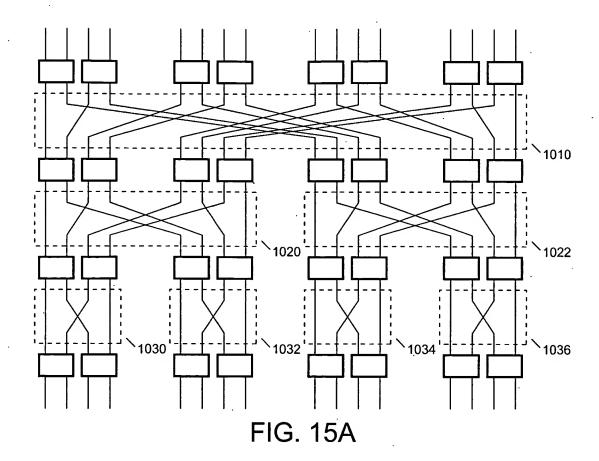
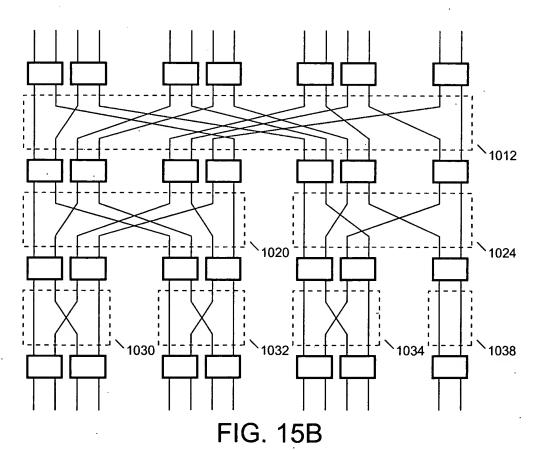
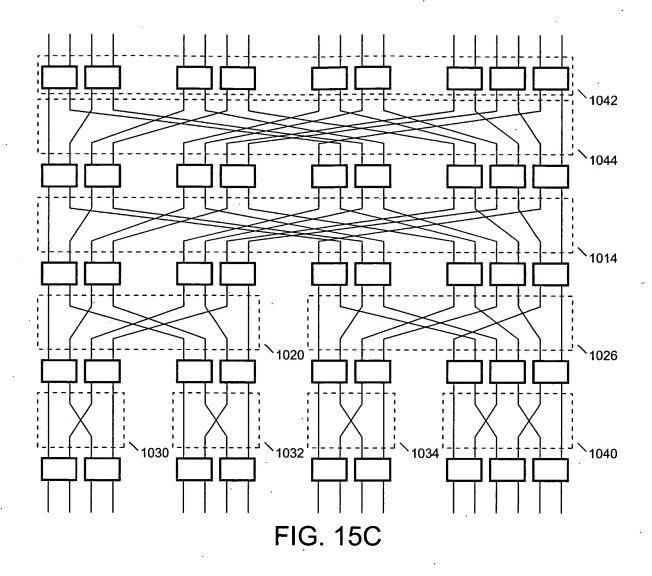
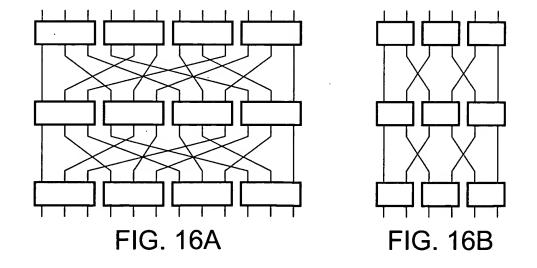


FIG. 14D



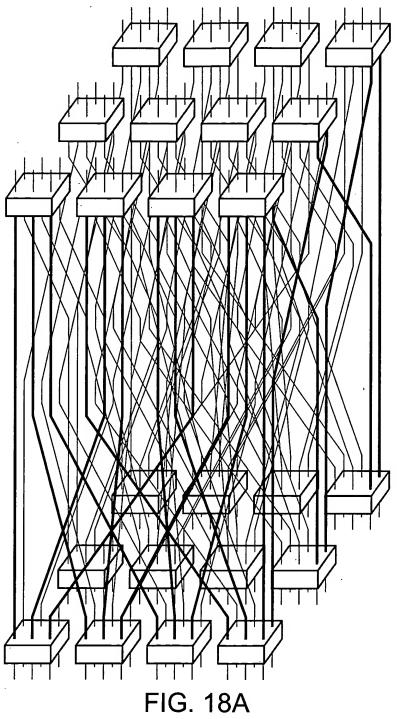


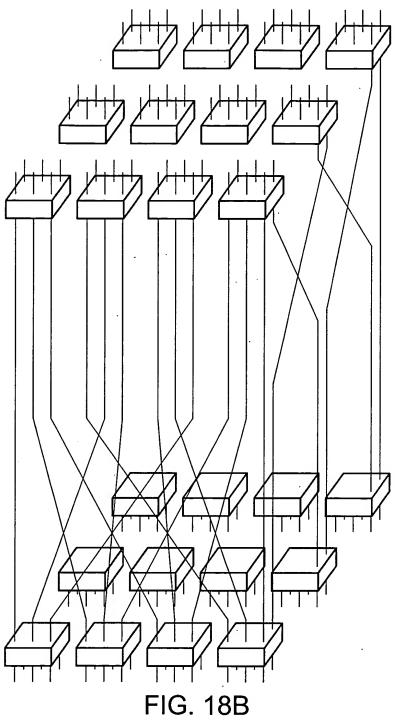




$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
FIG. 17A							FIG. 17B					
(0.0)	(1.0)	(2.0)	(3.0)	(4.0)	(5.0)	(6.0)	(7,0)	(8.0)	(9 0)	(10.0)	(11.0)	
. 1	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	(10,0)	. ↓	1	\downarrow	\downarrow	
							(7,1)					
, ↓	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	(7,1) ↓ (10,2)	\downarrow	\downarrow	1	1	
										·	-	
\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	↓.	(7,2) ↓ (10,4)	\downarrow	\downarrow	\downarrow	\downarrow	
\downarrow	\downarrow	\downarrow	\ .	\downarrow	1	\downarrow	(7,3) ↓	↓ ·	\downarrow	\downarrow	\downarrow	
							(10,1)					
\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	(7,4) ↓	\downarrow	\downarrow	\downarrow	\downarrow	
(0,3)	(3,3)	(6,3)	(9,3)	(1,3)	(4,3)	(7,3)	(10,3)	(2,3)	(5,3)	(8,3)	(11,3)	
\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	(7,5) ↓	\downarrow	\downarrow	1		
(0,5)	(3,5)	(6,5)	(9,5)	(1,5)	(4,5)	(7,5)	(10,5)	(2,5)	(5,5)	(8,5)	(11,5)	

FIG. 17C





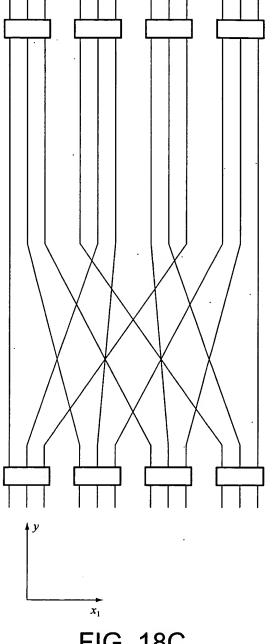


FIG. 18C

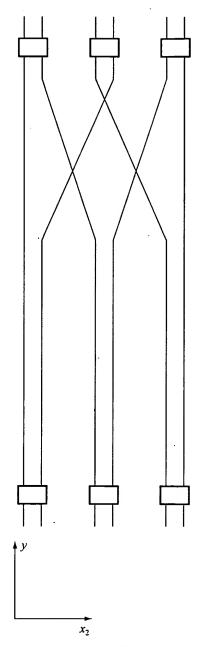


FIG. 18D

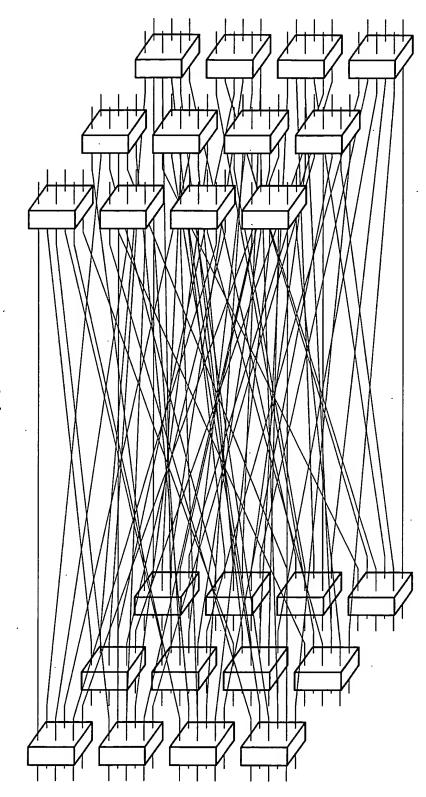


FIG. 18E

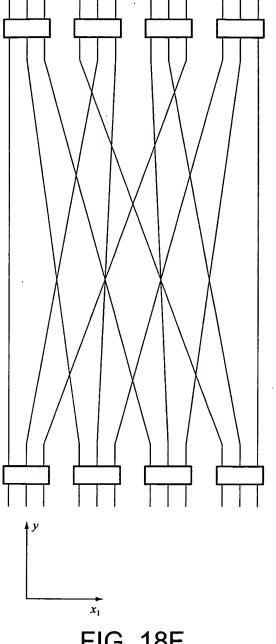
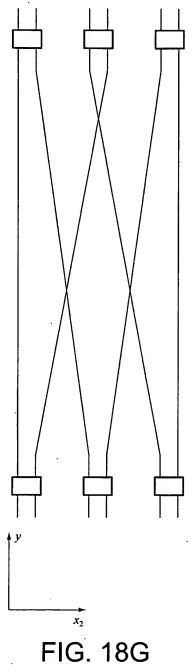
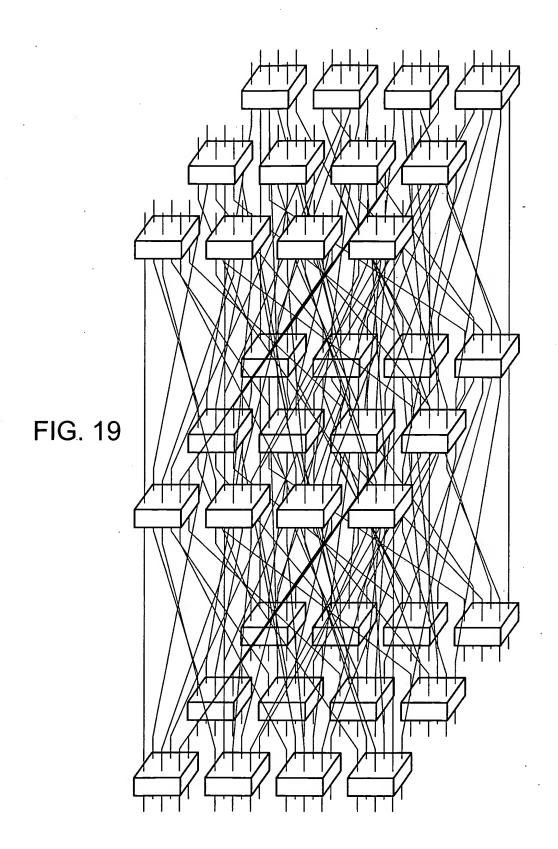


FIG. 18F





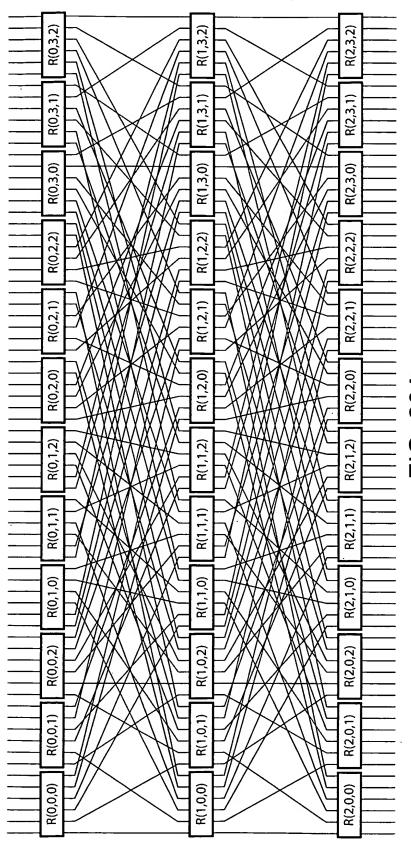
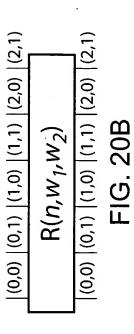


FIG. 20A



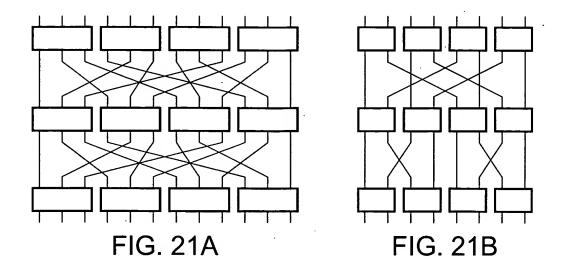


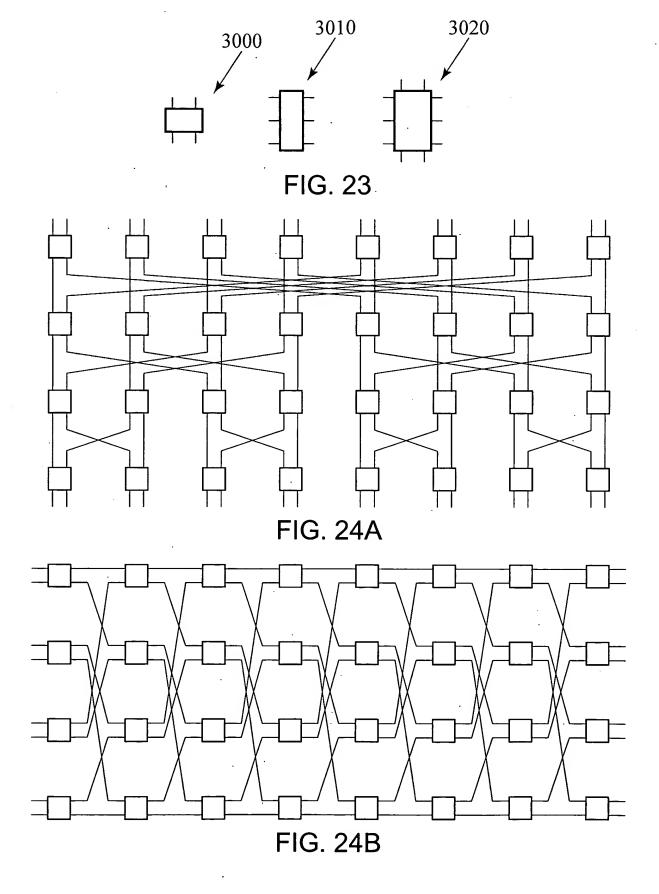
FIG. 22A

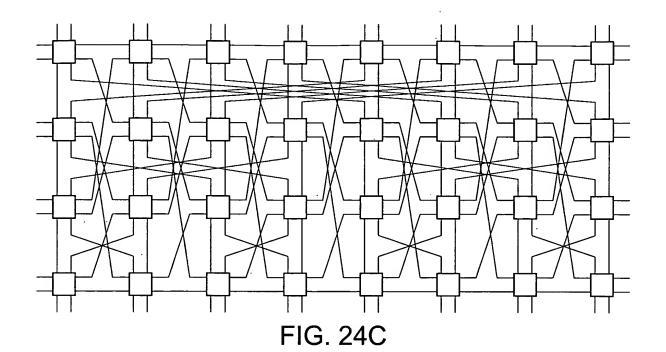
0	1	2	3	4	5	6	7	
\downarrow								
0	4	2	6	1	5	3	7	

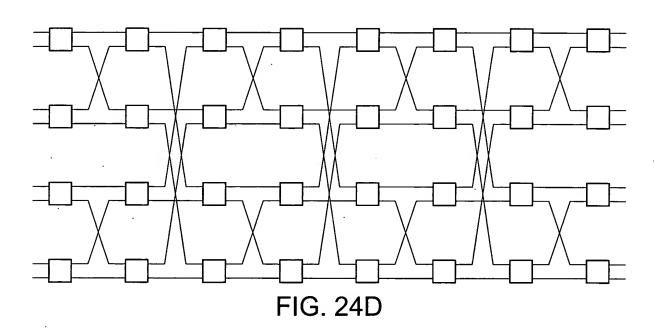
FIG. 22B

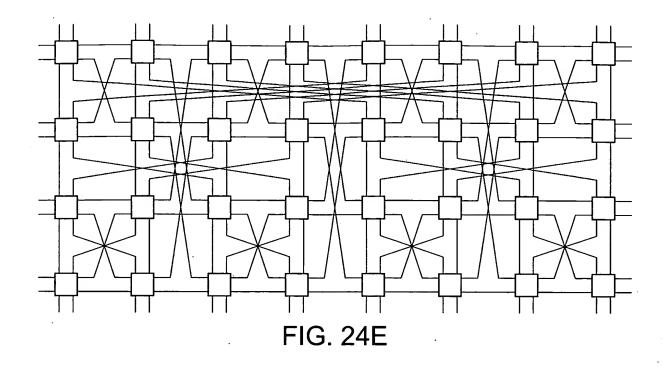
FIG. 22C

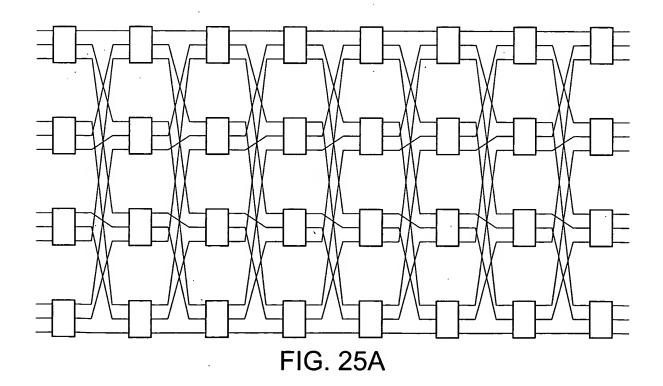
FIG. 22E

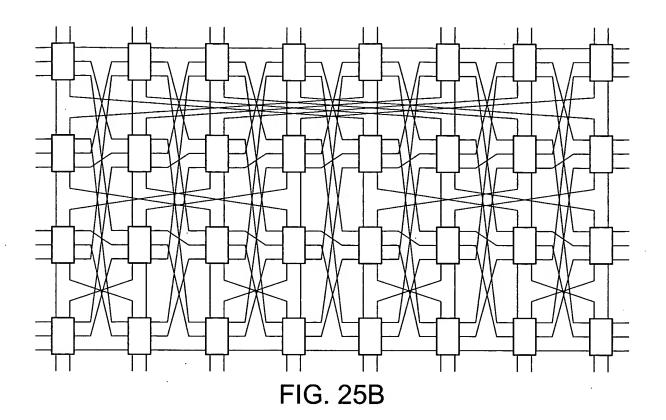


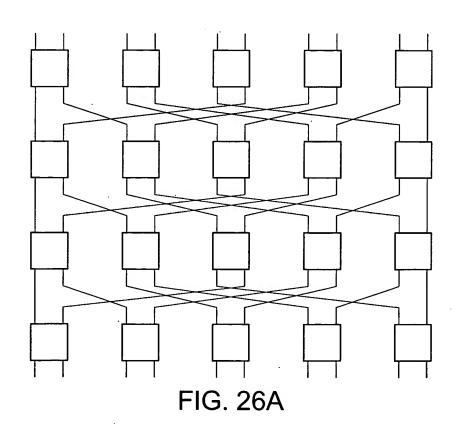


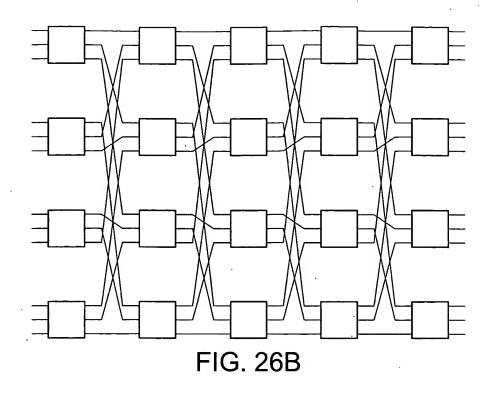


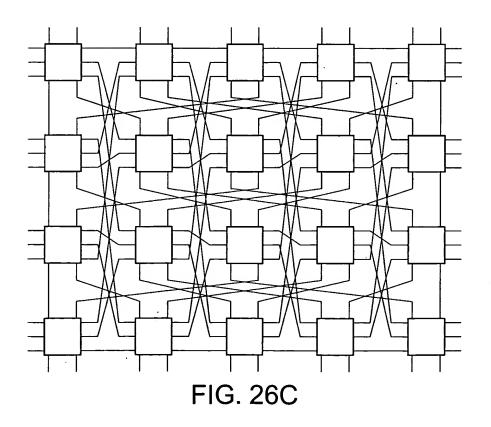


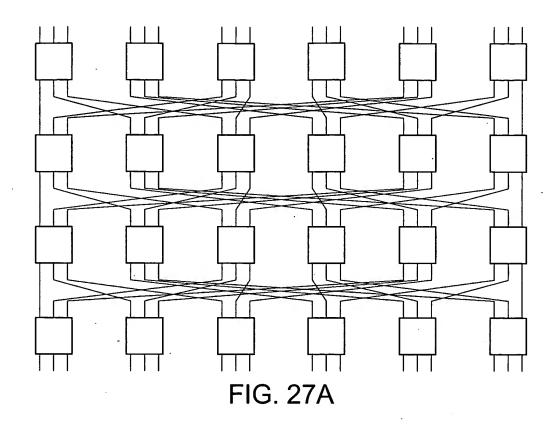


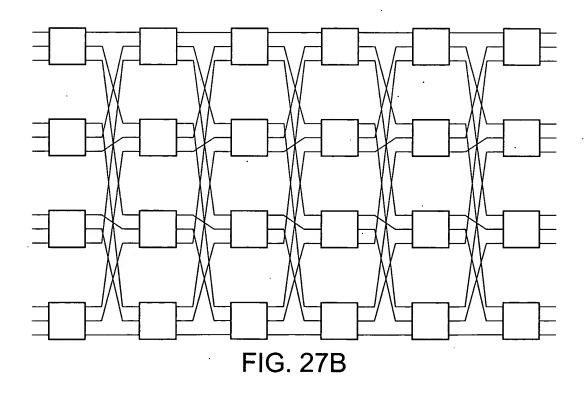


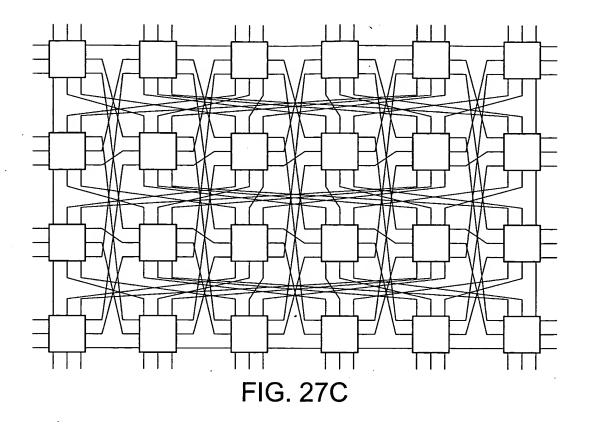


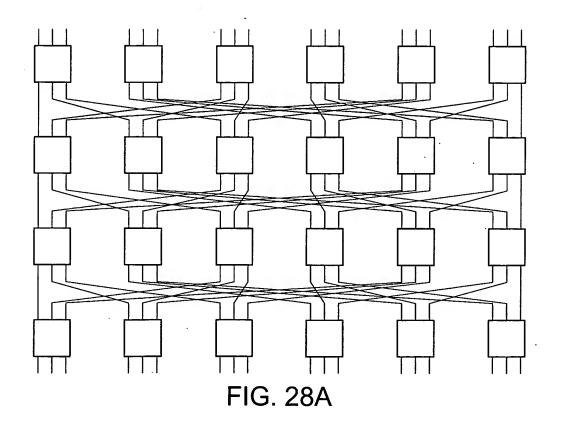


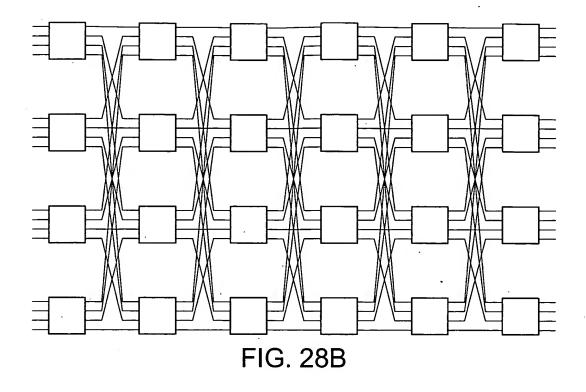


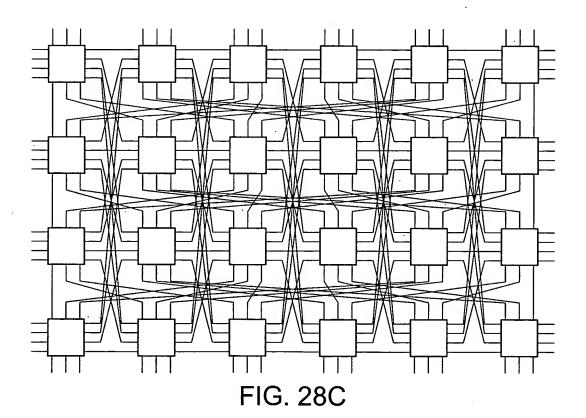


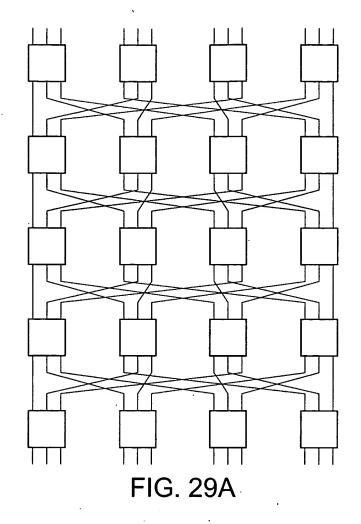


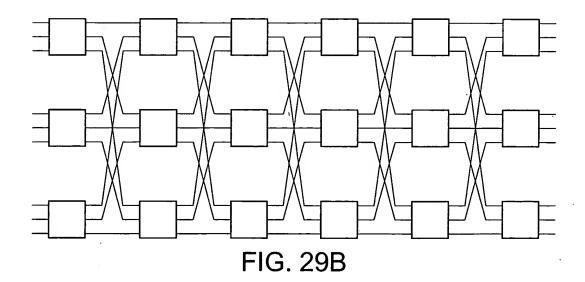


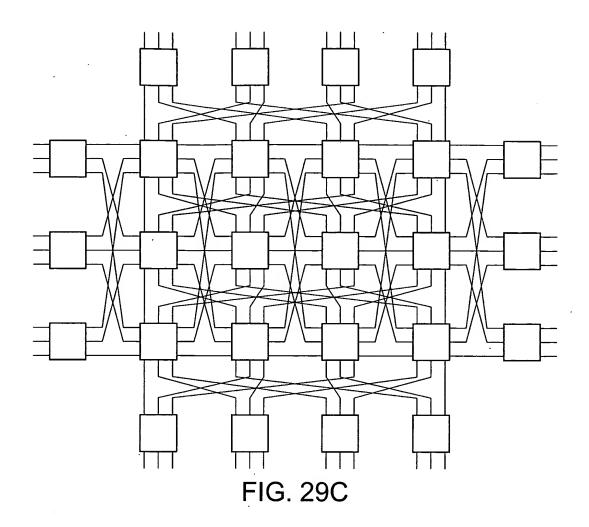


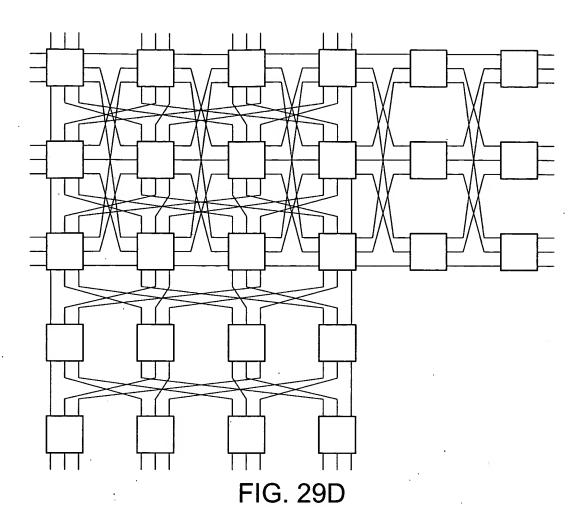












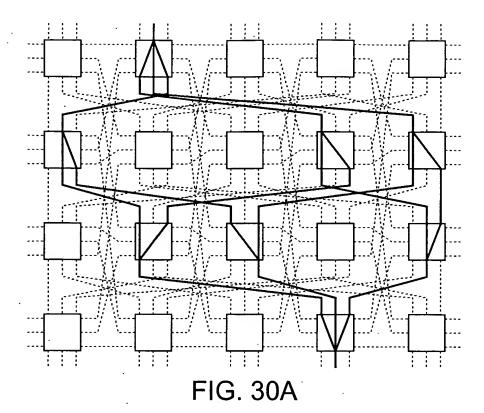
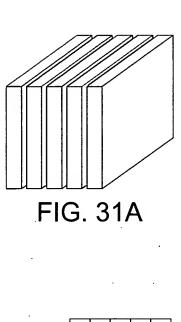
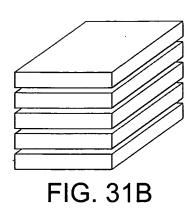
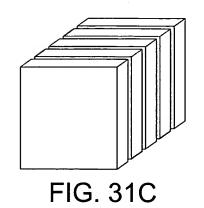
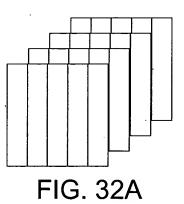


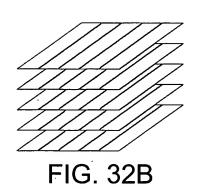
FIG. 30B

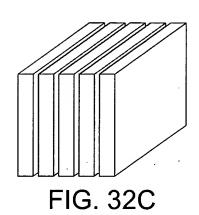












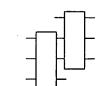


FIG. 33A



FIG. 33B

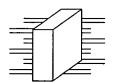


FIG. 33C

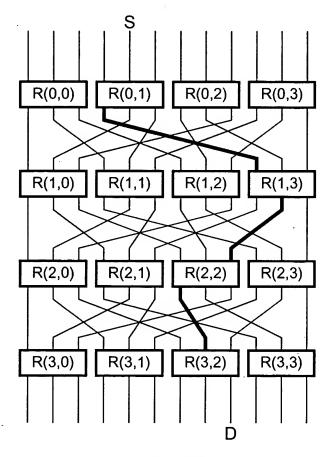
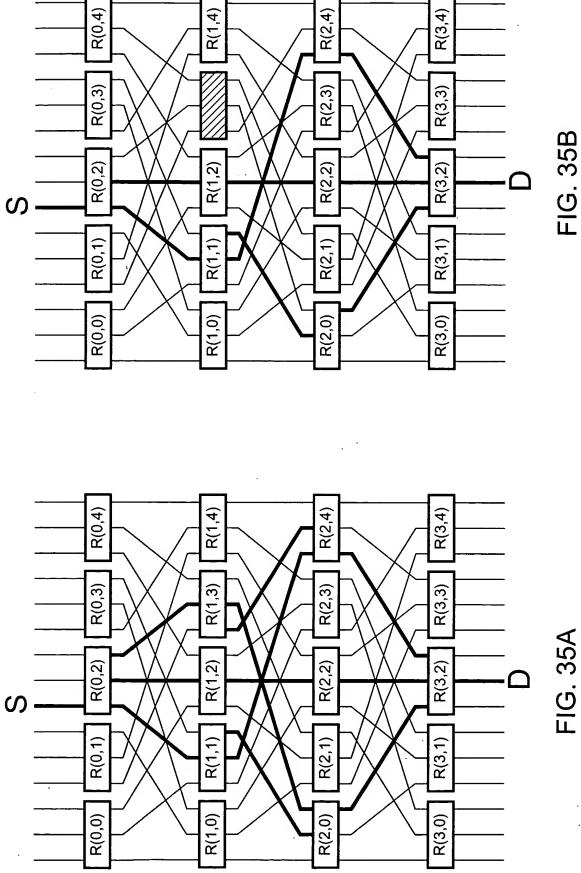
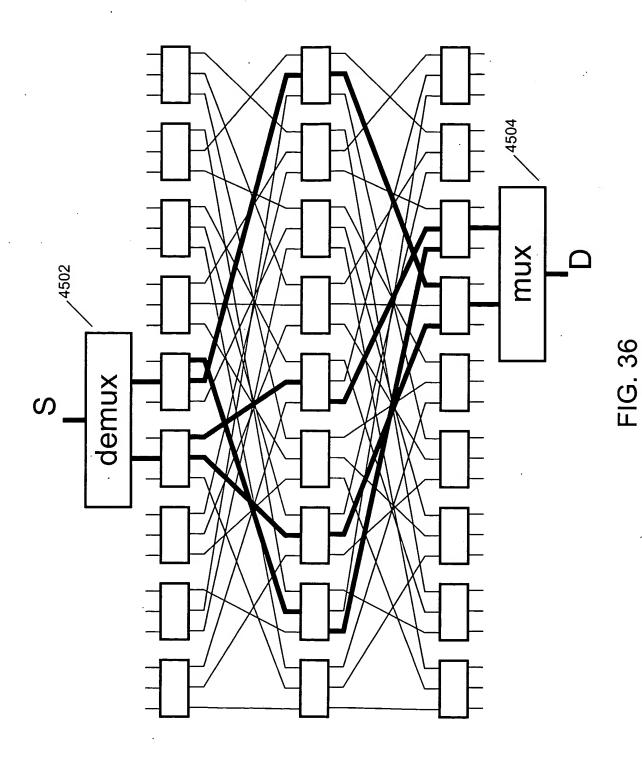
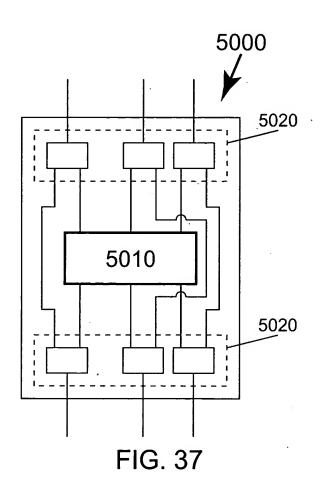


FIG. 34







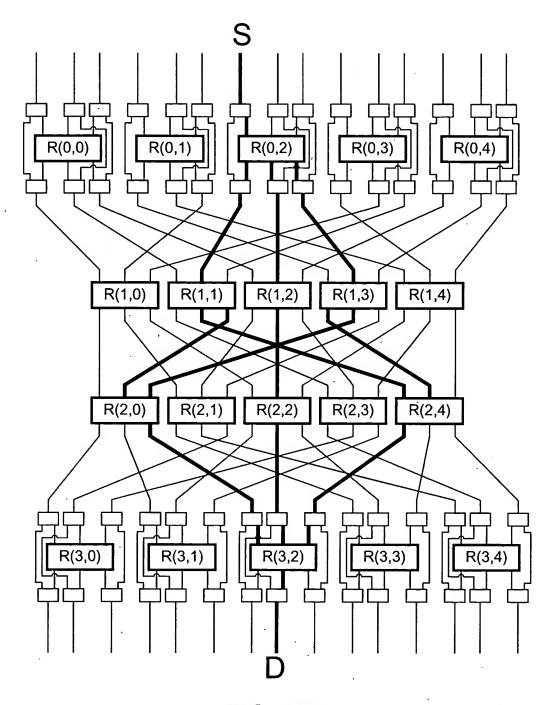


FIG. 38A

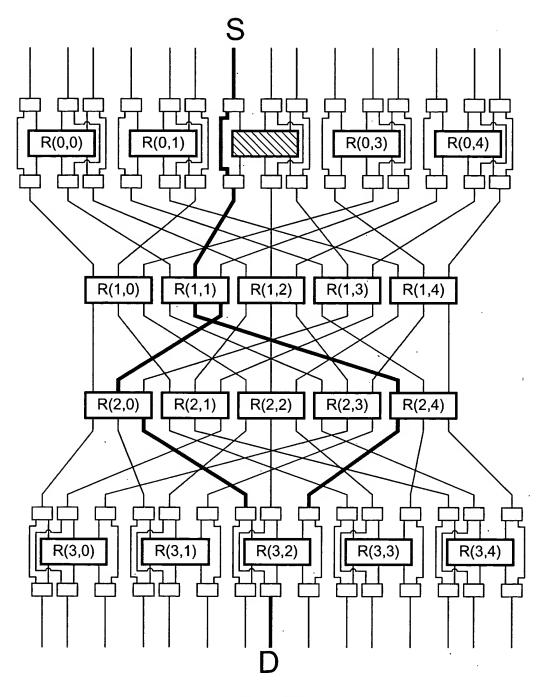


FIG. 38B

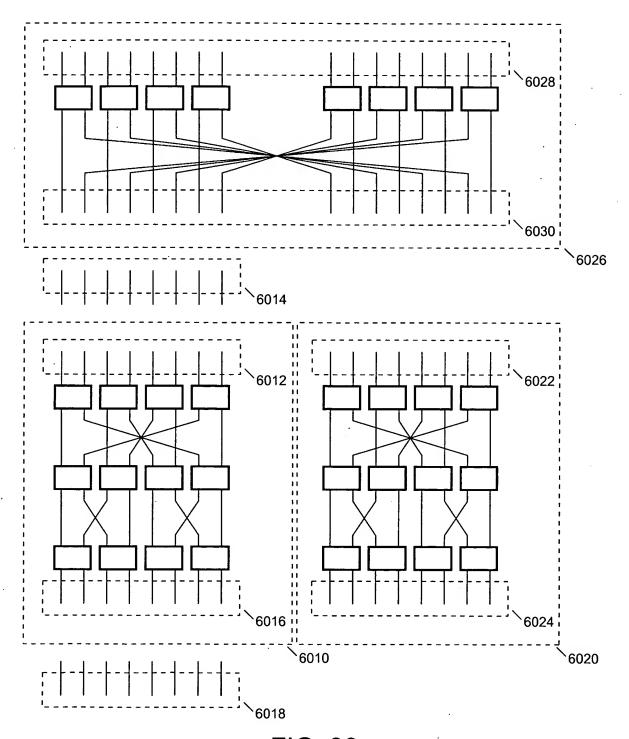
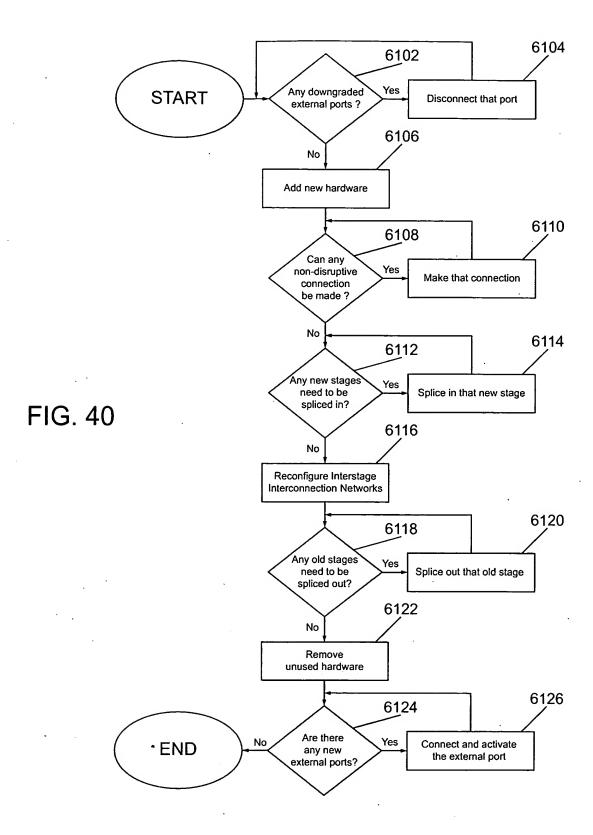
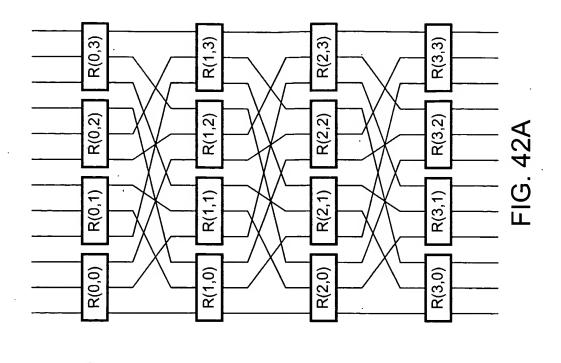
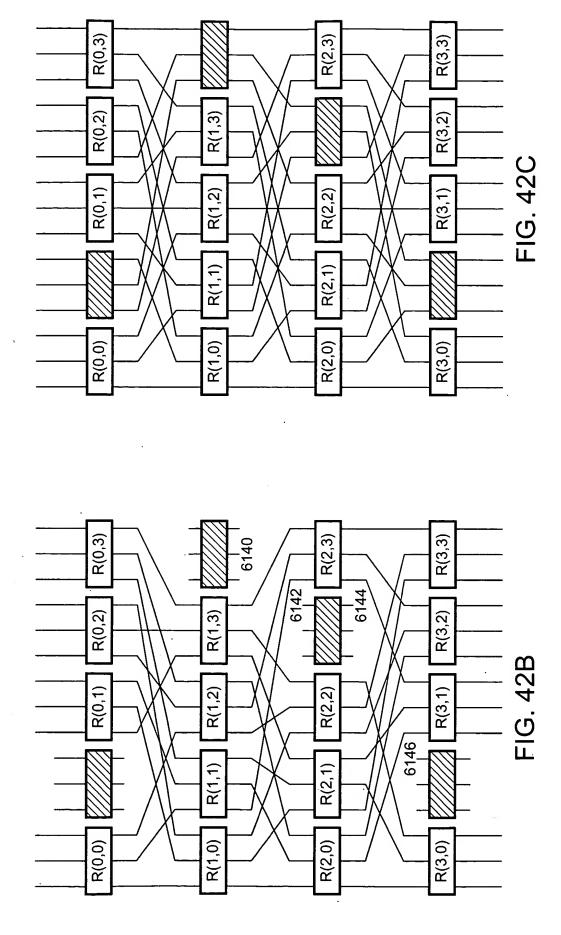


FIG. 39





R(0,0) R(0,1) R(0,2) R(0,3) R(0,4) R(1,0) R(1,1) R(1,2) R(1,3) R(1,4) R(2,0) R(2,1) R(2,1) R(2,3) R(2,4) E1G. 41



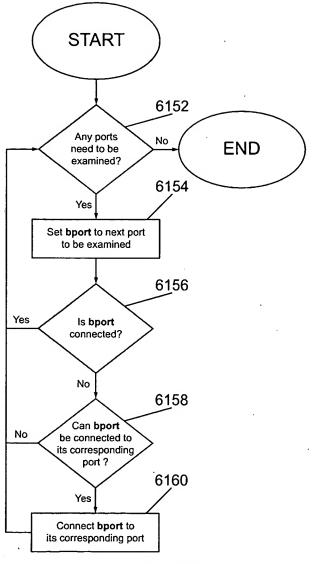


FIG. 43

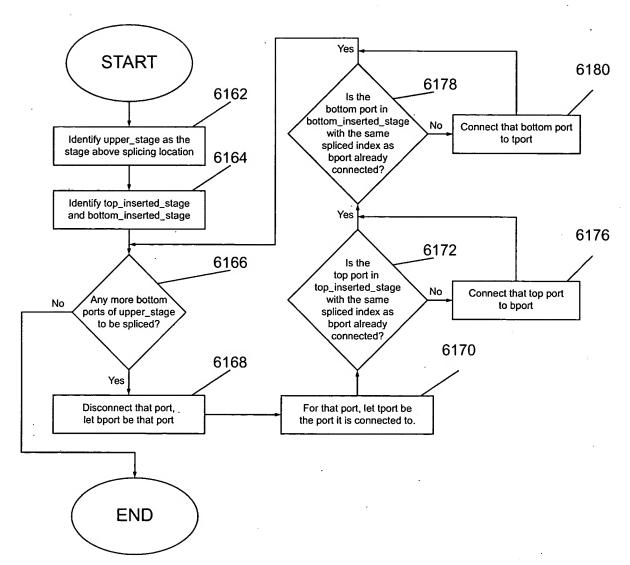


FIG. 44

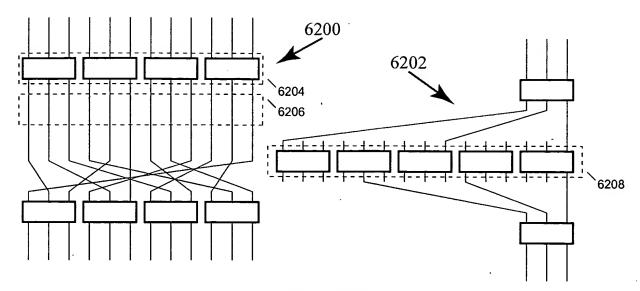
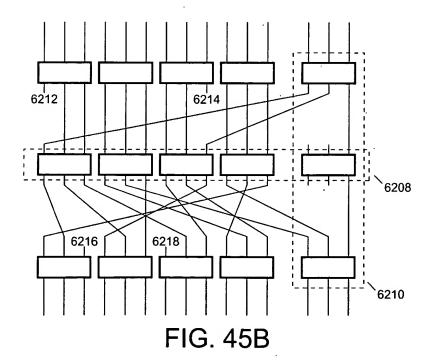
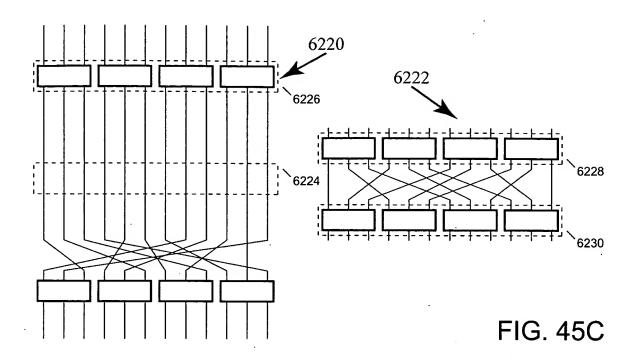
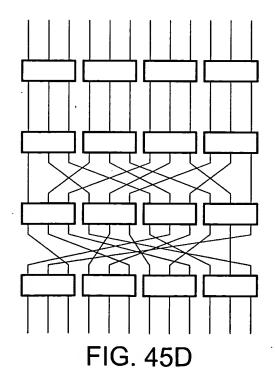


FIG. 45A







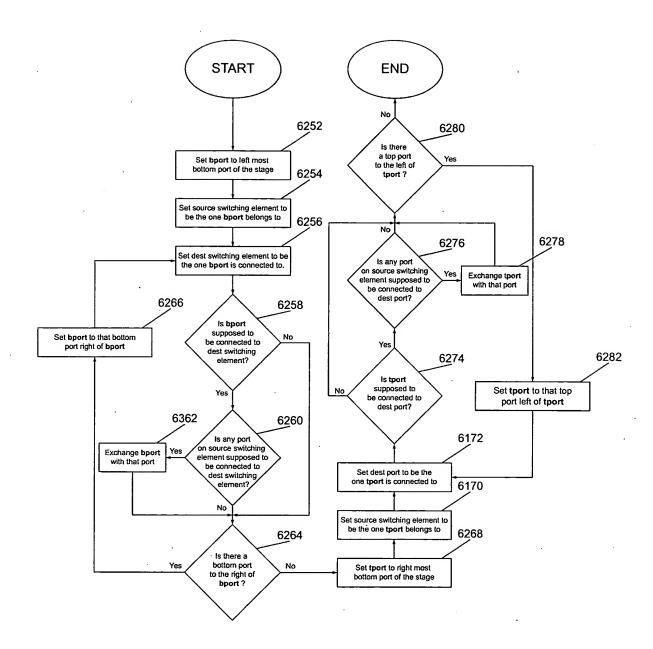
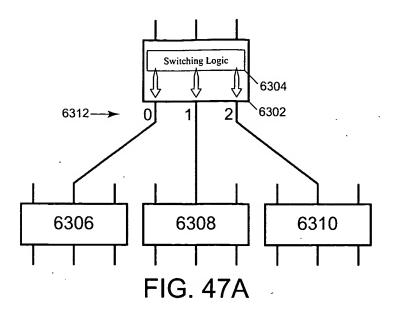
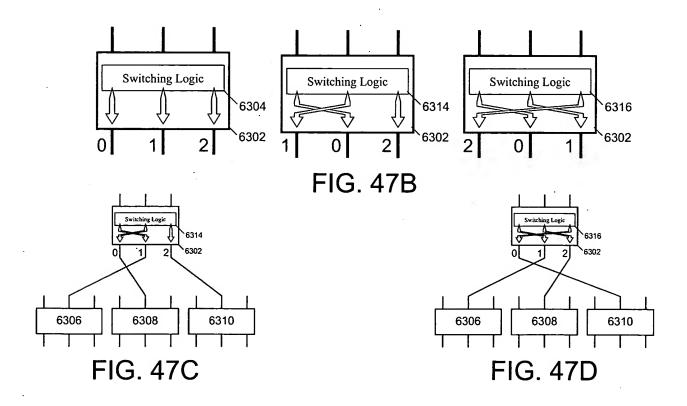


FIG. 46





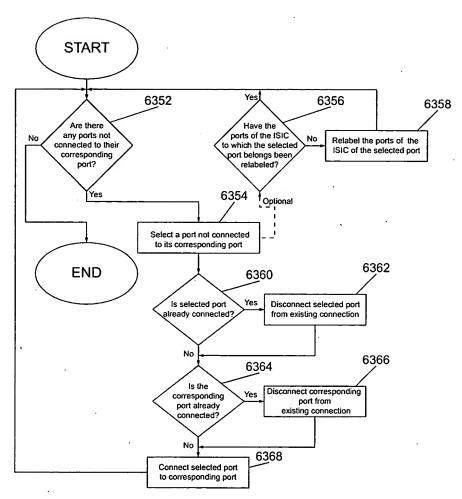


FIG. 48A

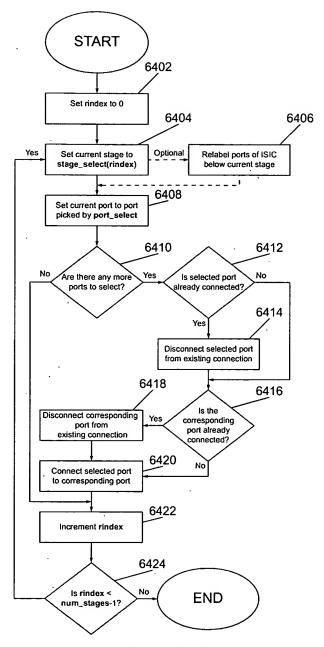
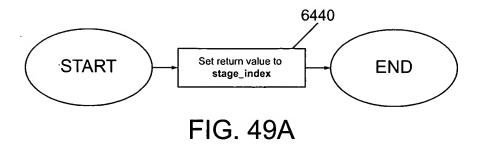
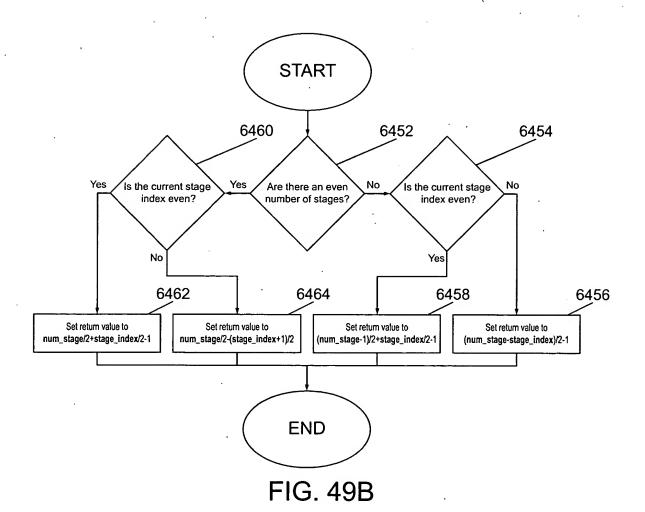


FIG. 48B





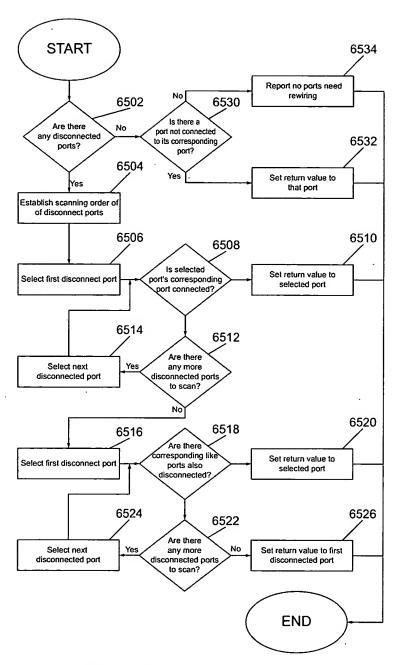


FIG. 50A

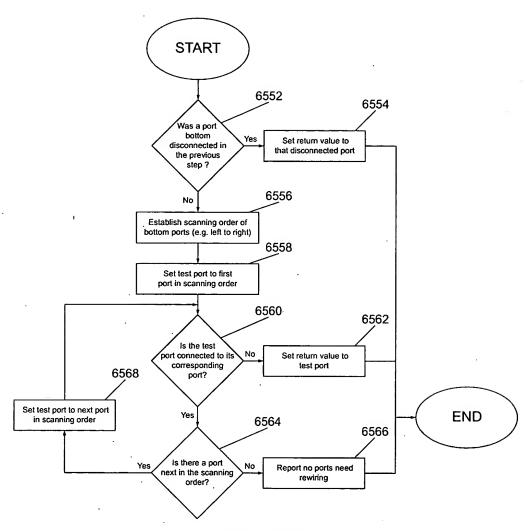


FIG. 50B

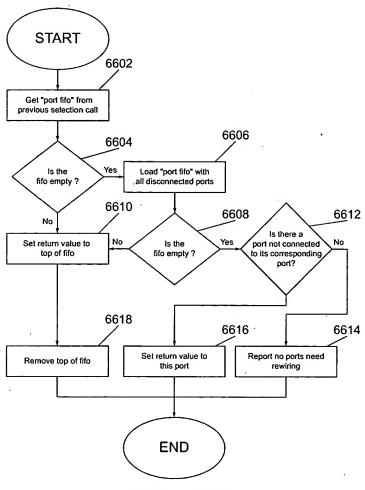


FIG. 50C

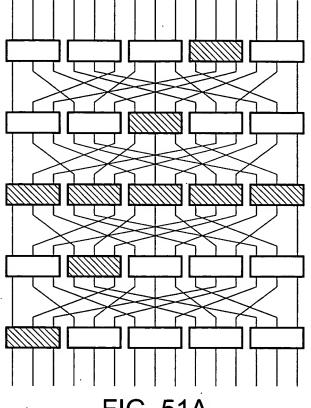


FIG. 51A

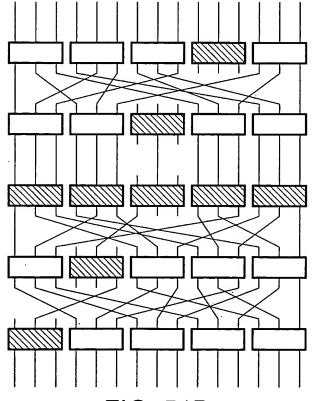
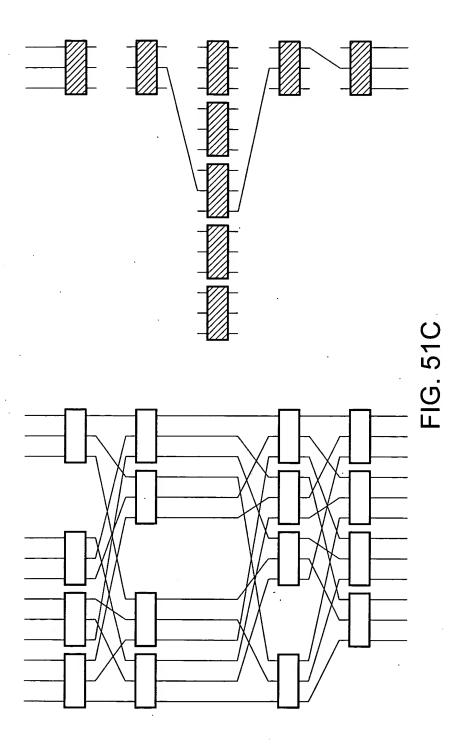


FIG. 51B



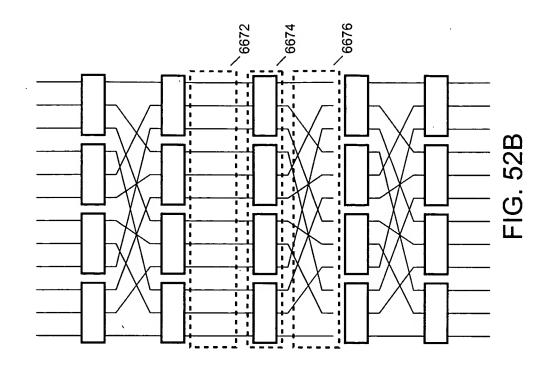
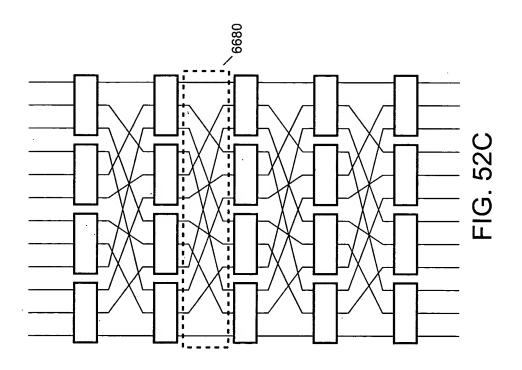
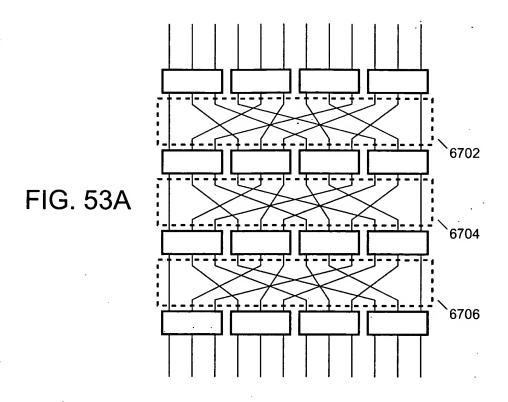
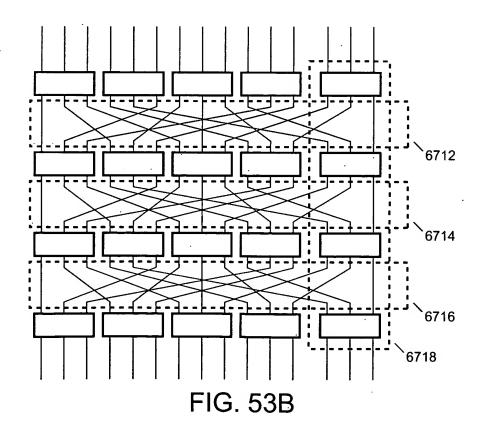
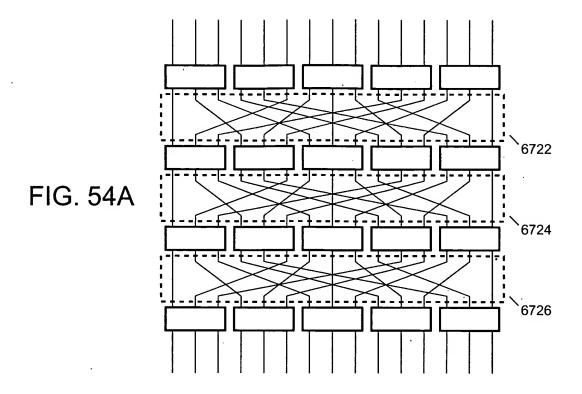


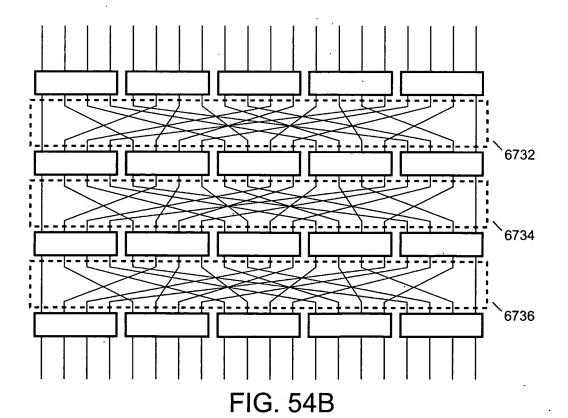
FIG. 52A











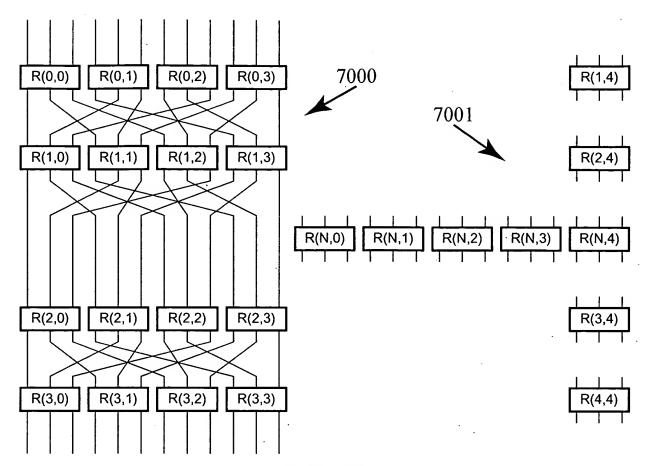


FIG. 55

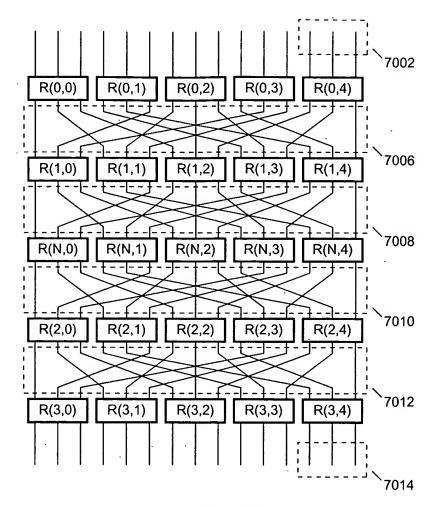


FIG. 56

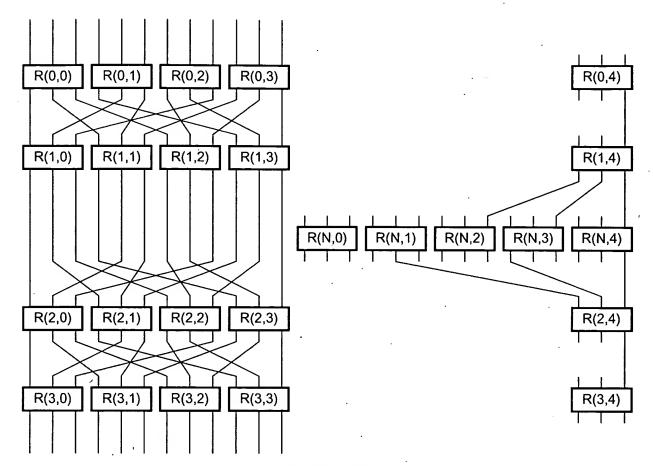
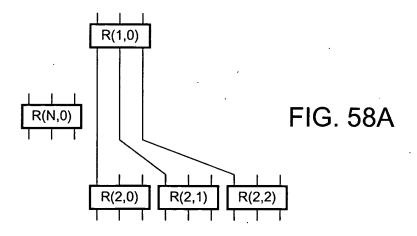
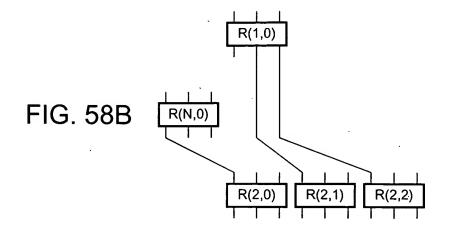
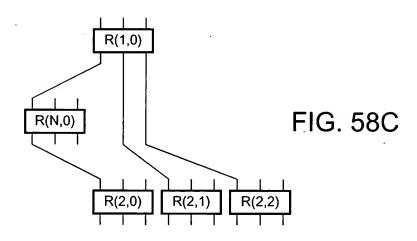
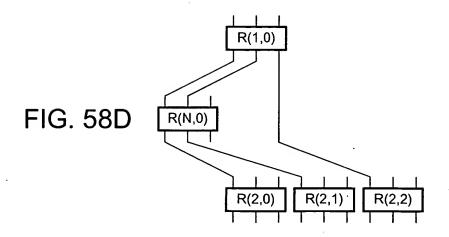


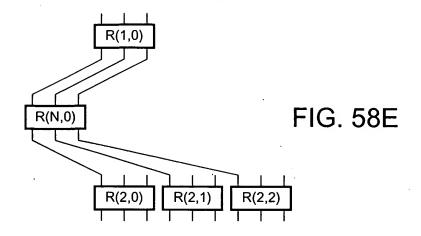
FIG. 57











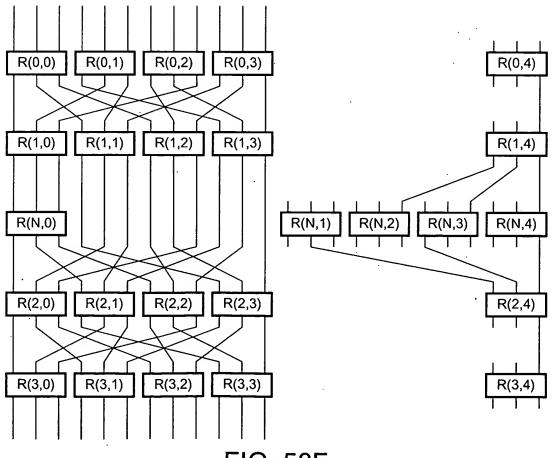
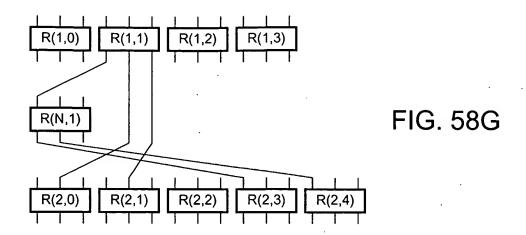
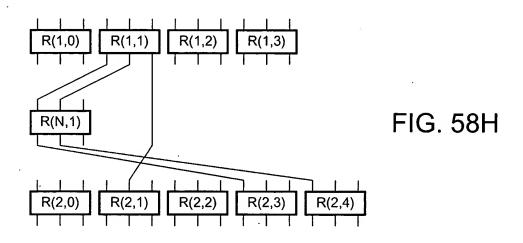
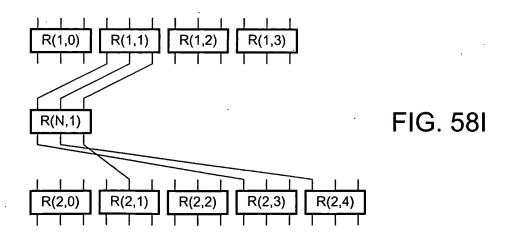


FIG. 58F







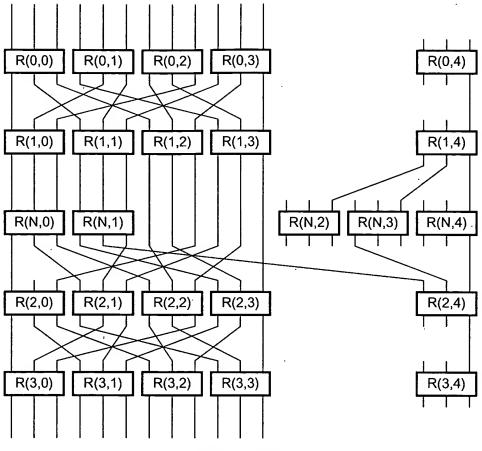


FIG. 58J

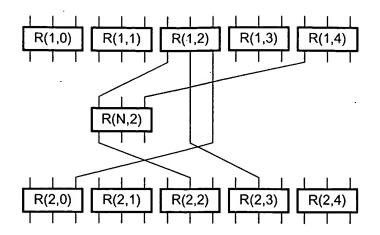


FIG. 58K

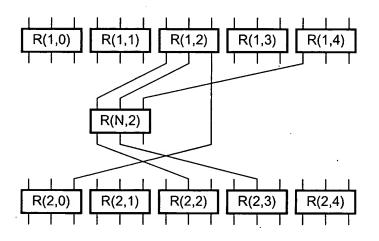


FIG. 58L

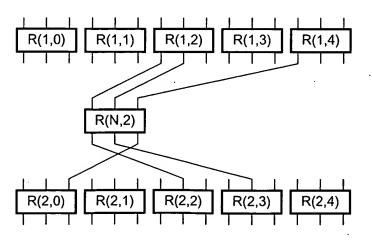
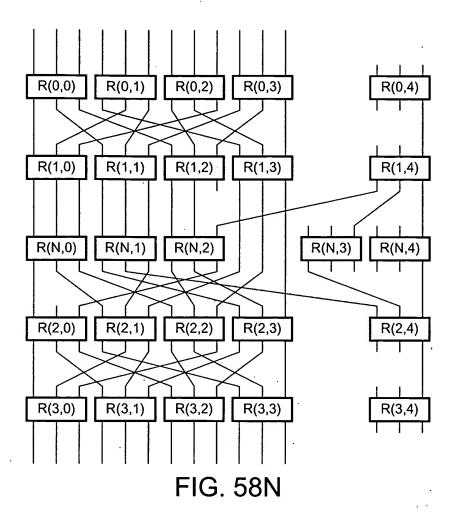
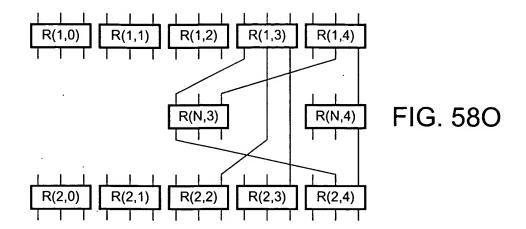
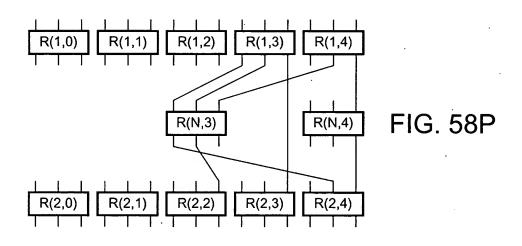
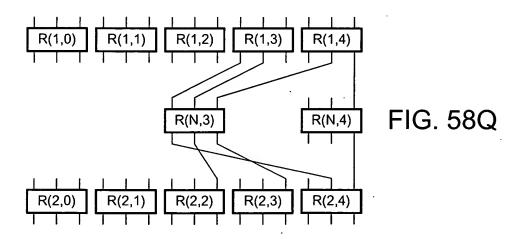


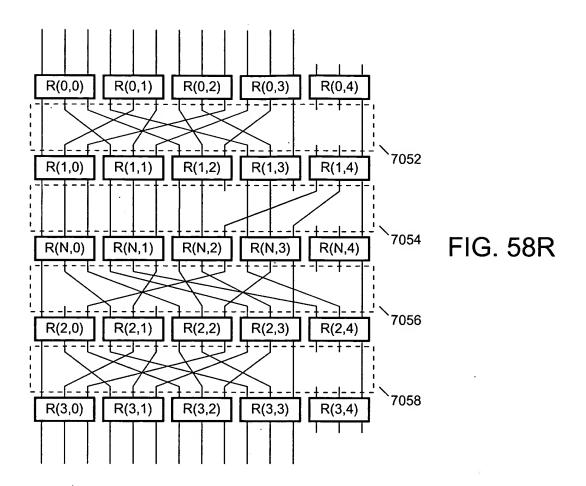
FIG. 58M

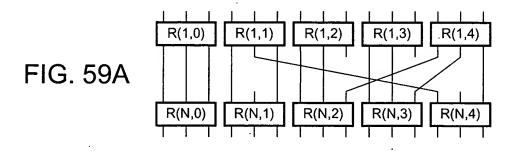


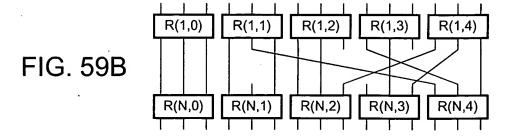


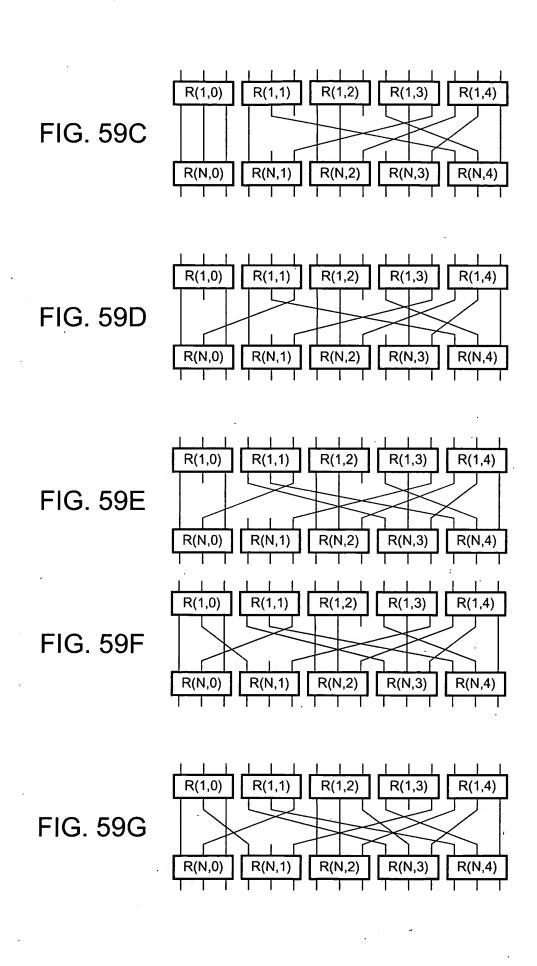


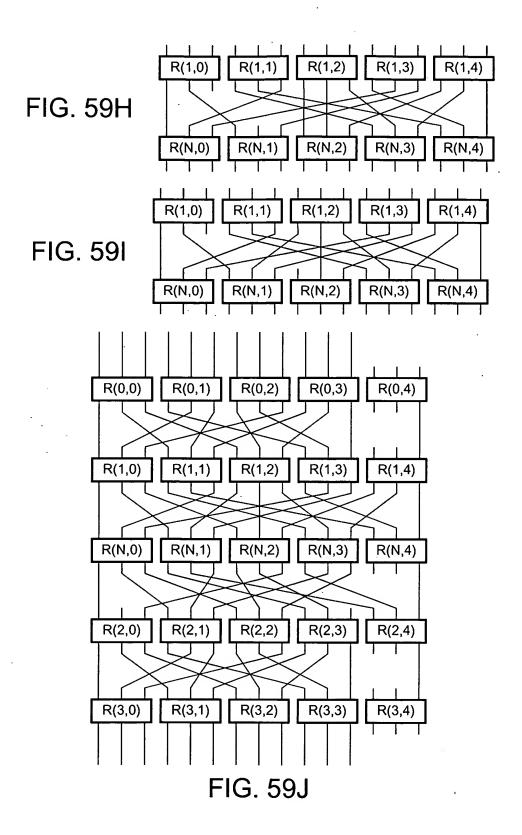


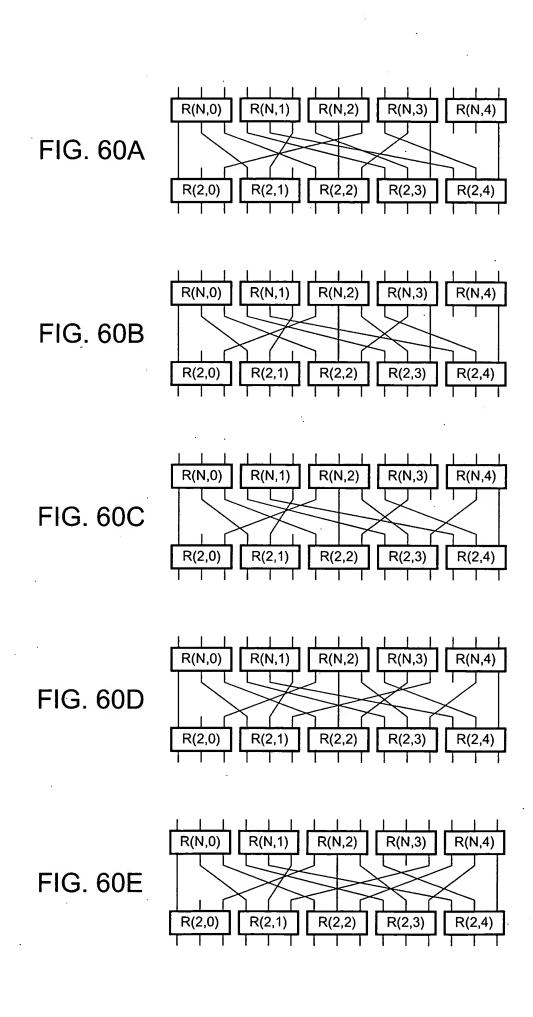












R(N,3) R(N,0) R(N,1) R(N,2) R(N,4) FIG. 60F R(N,0) R(N,1) R(N,2) R(N,3) R(N,4) FIG. 60G R(0,0) R(0,1) · R(0,3) R(0,2) R(0,4) R(1,0) R(1,1) R(1,2) R(1,3) R(1,4) FIG. 60H R(N,4) R(N,0) R(N,1) R(N,2) R(N,3) R(2,0) R(2,1) R(2,3) R(2,4)R(2,2)R(3,2) R(3,3) R(3,4) R(3,0)R(3,1)

FIG. 61A

R(2,0)

R(2,1)

R(2,2)

R(2,3)

R(2,4)

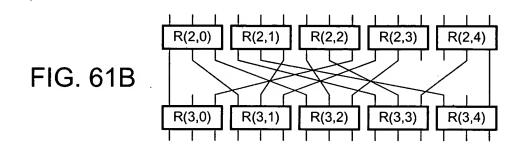
R(3,0)

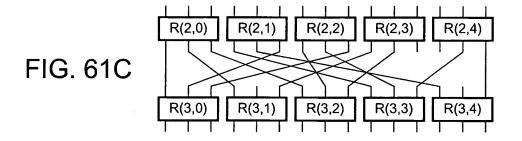
R(3,1)

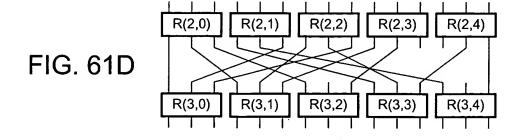
R(3,2)

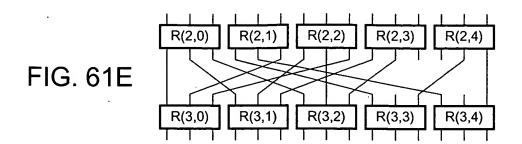
R(3,3)

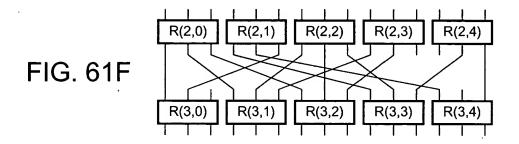
R(3,4)

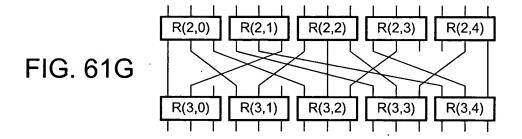












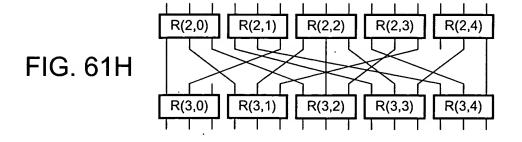


FIG. 611

R(2,0) R(2,1) R(2,2) R(2,3) R(2,4)

R(3,0) R(3,1) R(3,2) R(3,3) R(3,4)

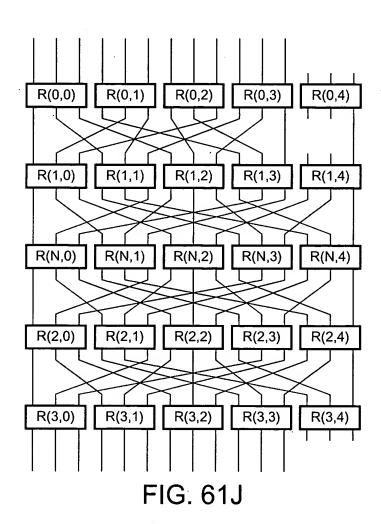


FIG. 62A

R(0,0)

R(0,1)

R(0,2)

R(0,3)

R(0,4)

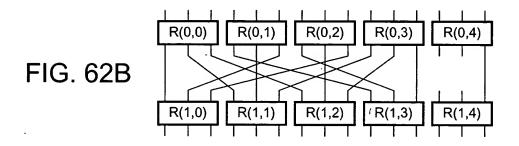
R(1,0)

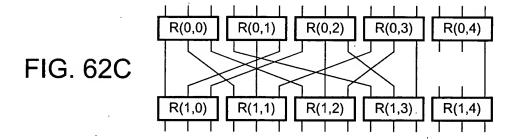
R(1,1)

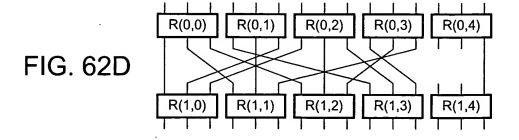
R(1,2)

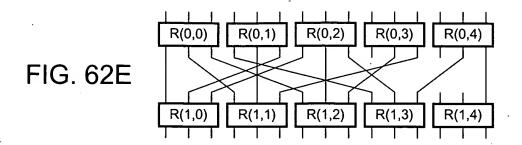
R(1,3)

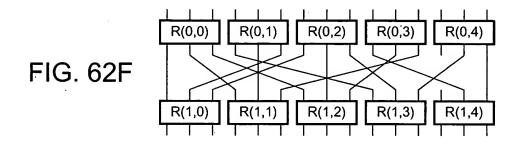
R(1,4)

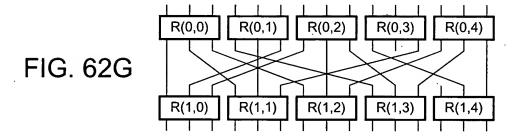












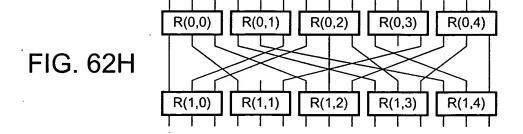


FIG. 62I

R(0,0)

R(0,1)

R(0,2)

R(0,3)

R(0,4)

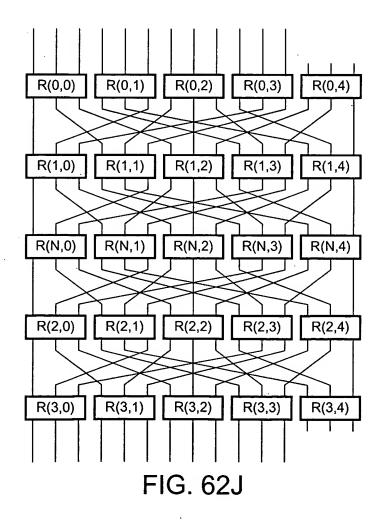
R(1,0)

R(1,1)

R(1,2)

R(1,3)

R(1,4)



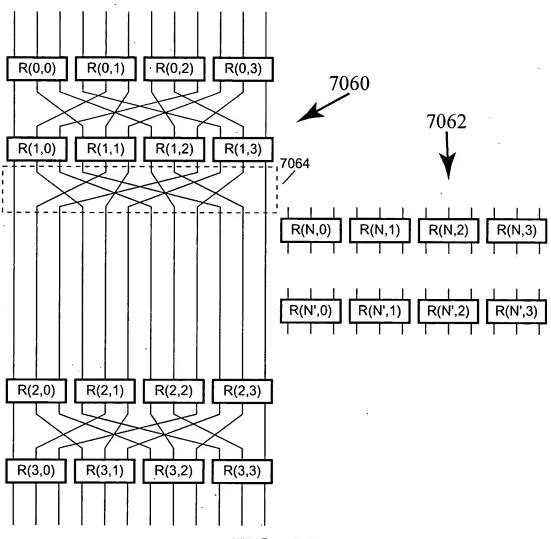
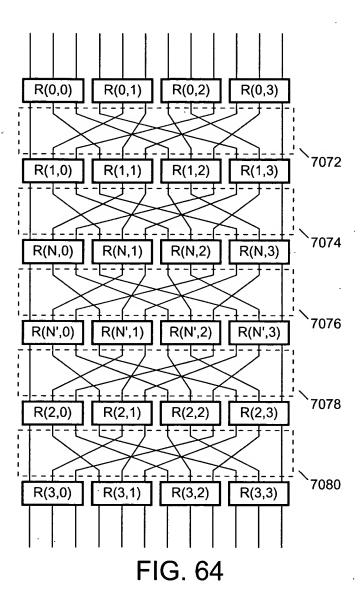


FIG. 63



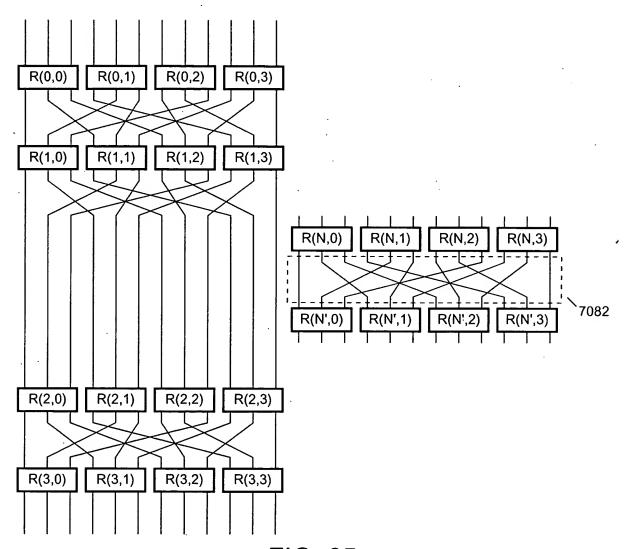
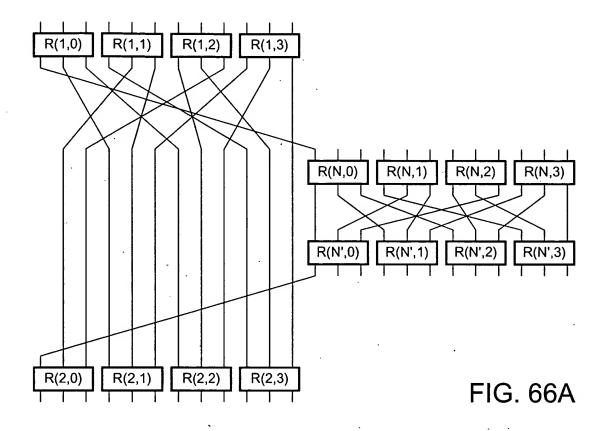
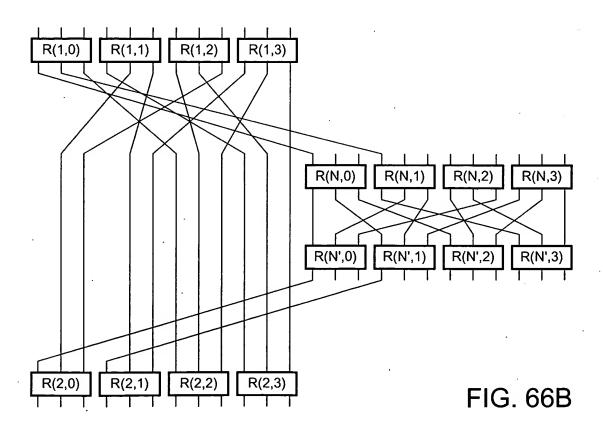
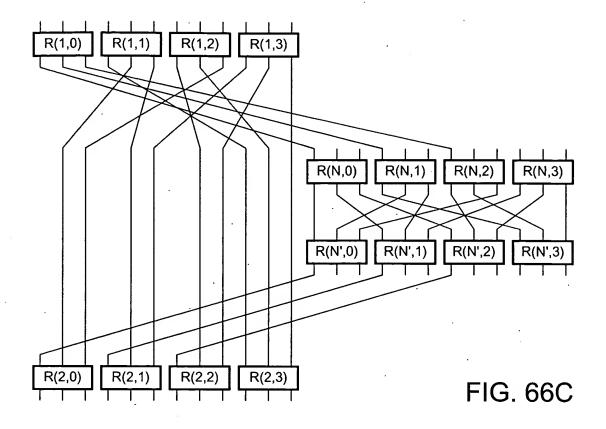
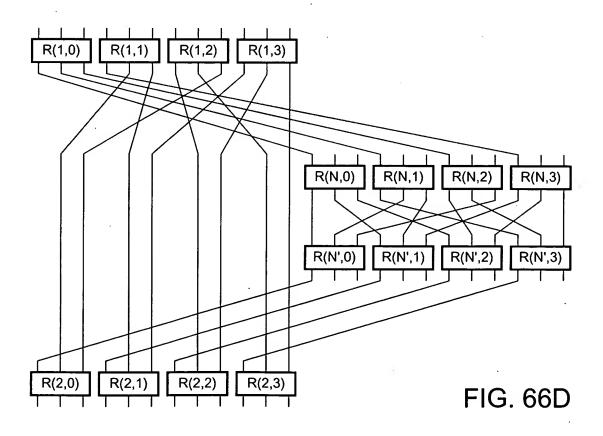


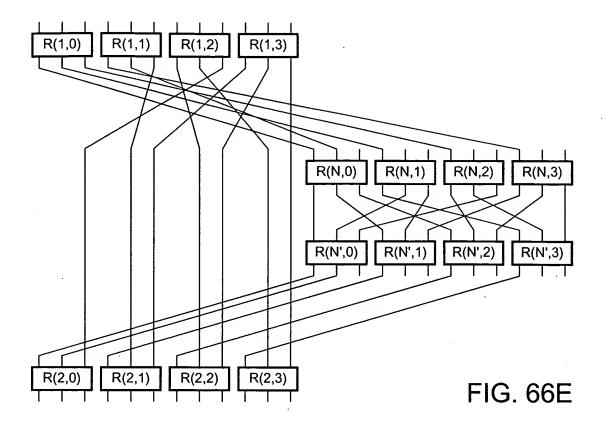
FIG. 65

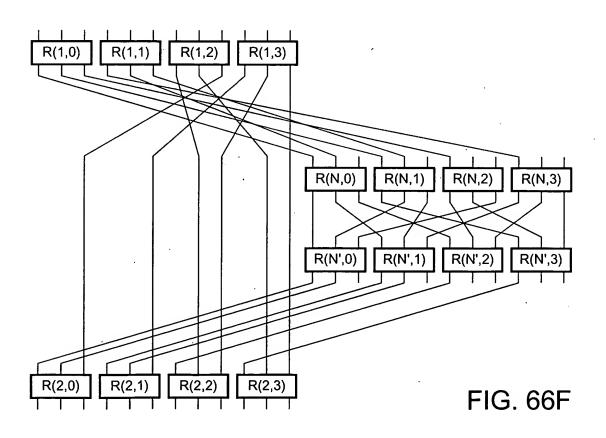


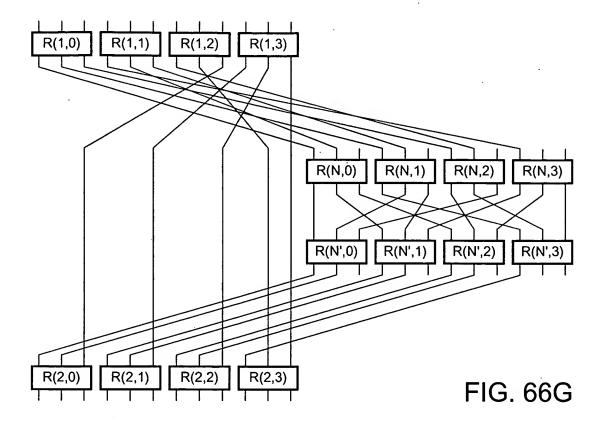


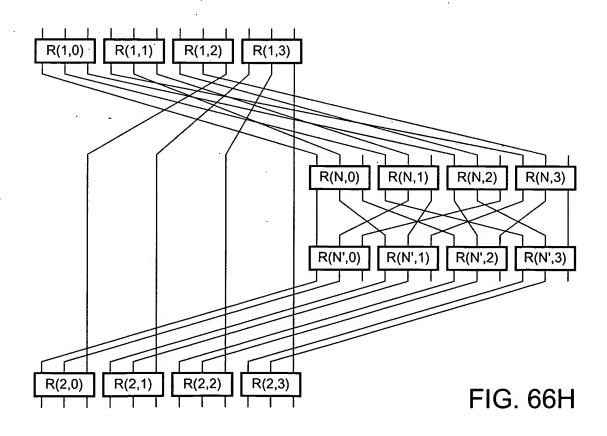


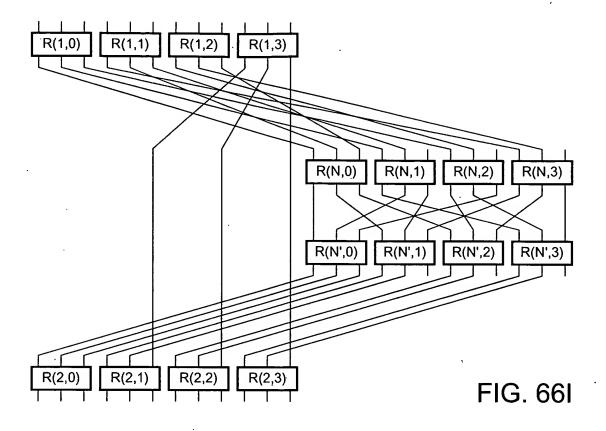


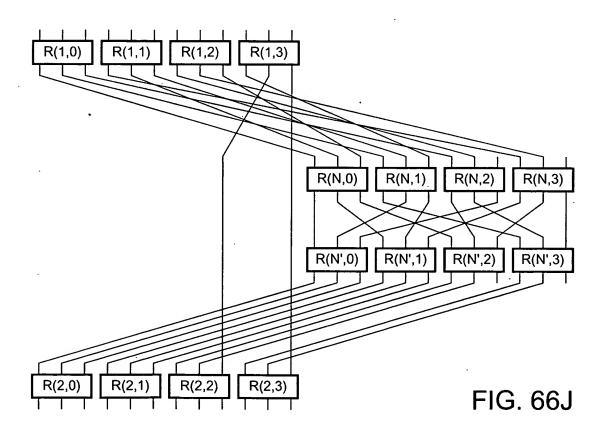


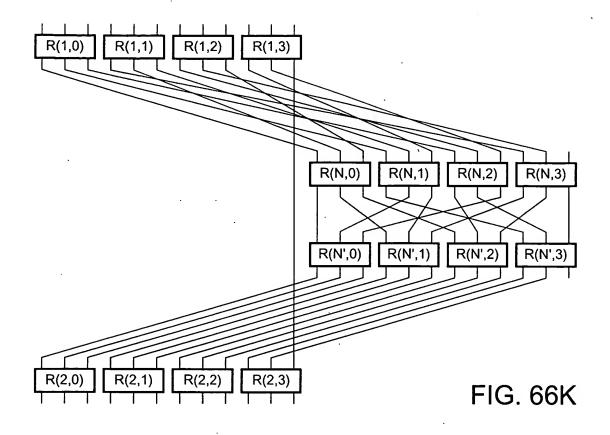


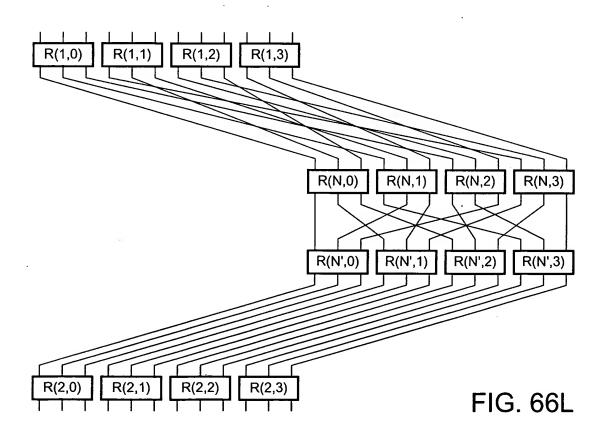


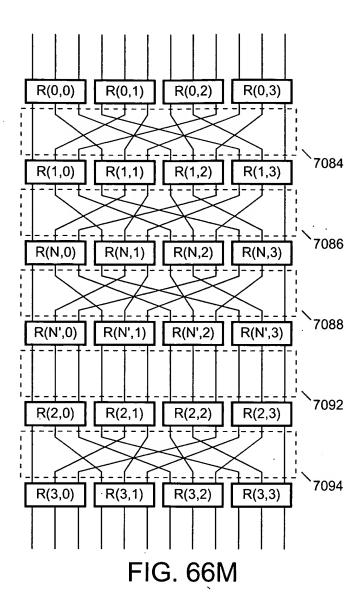


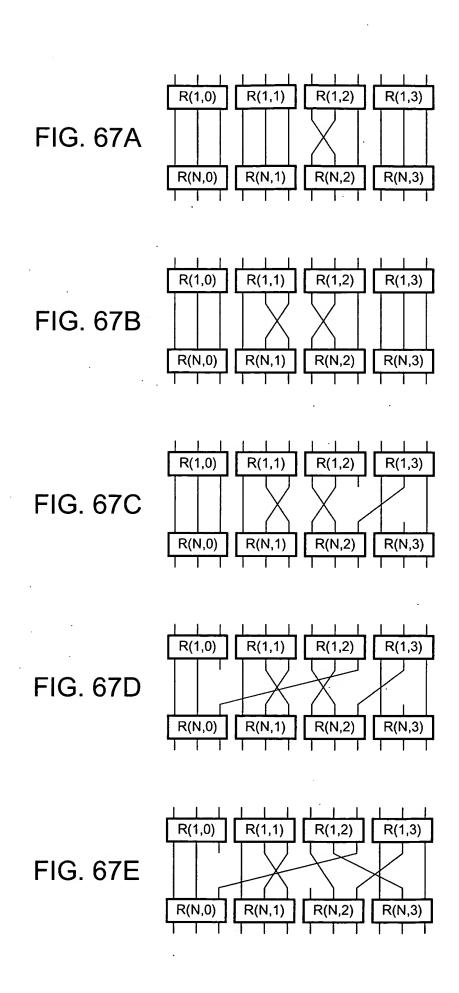


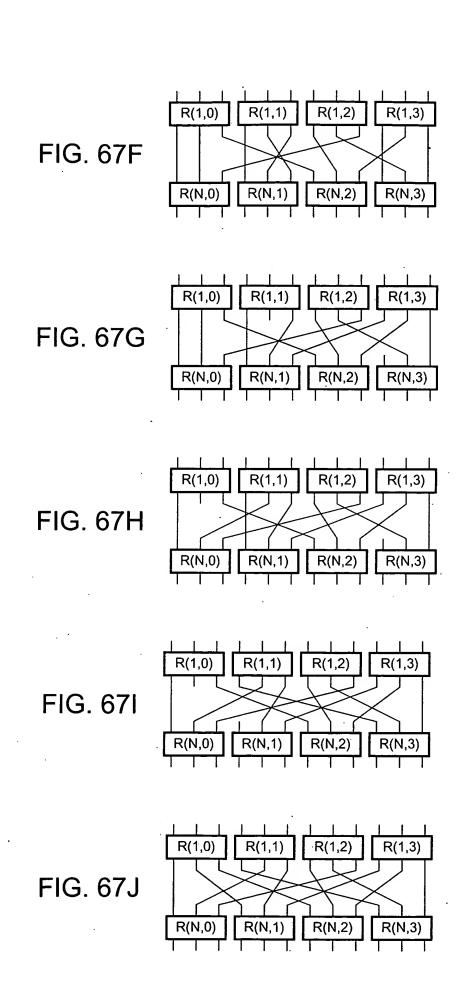












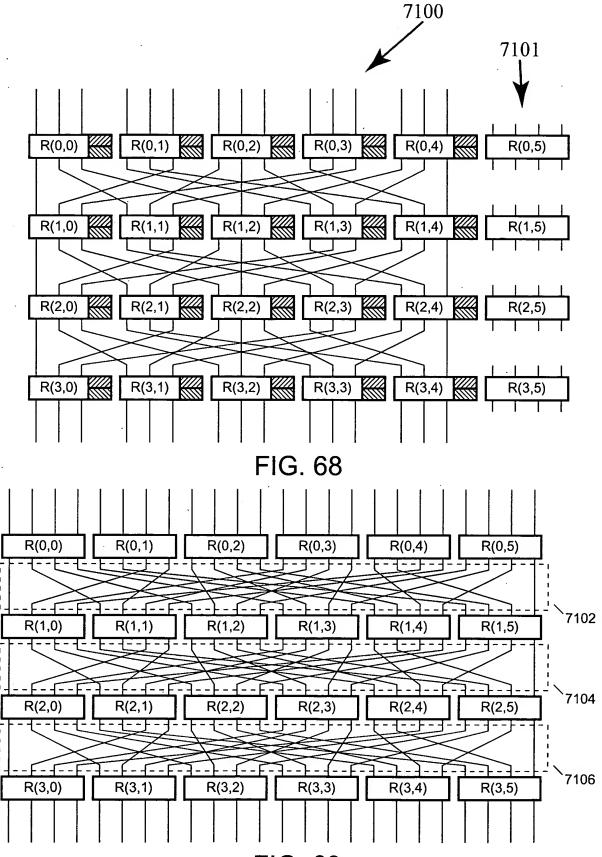
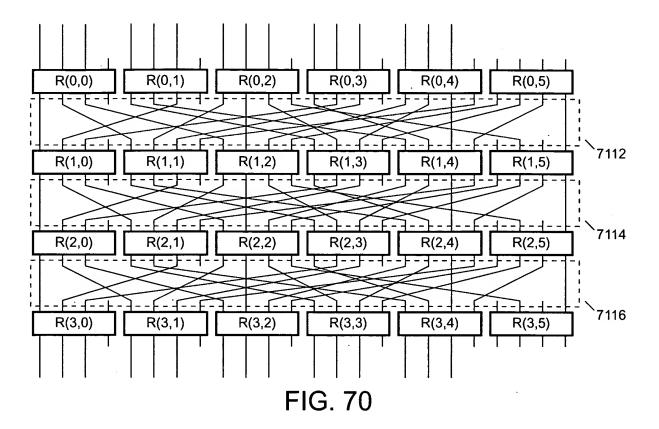
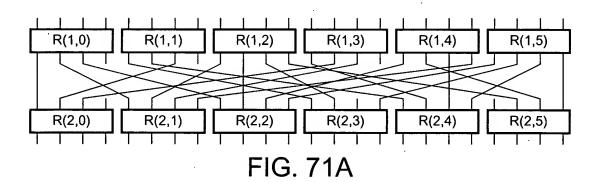


FIG. 69





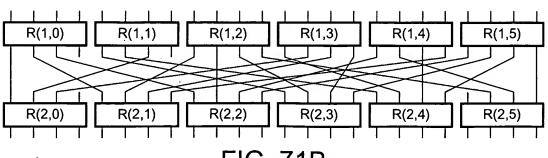
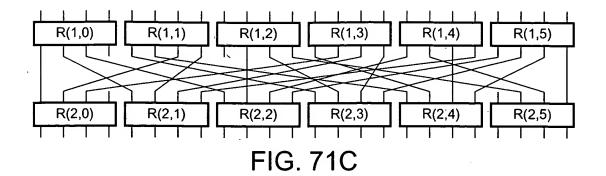
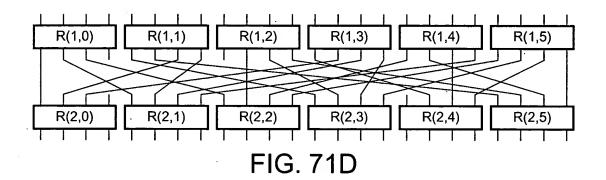
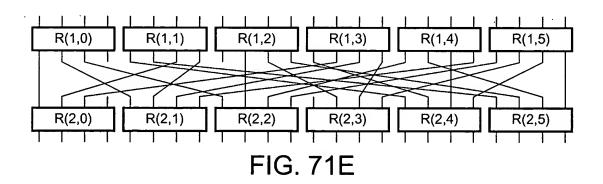
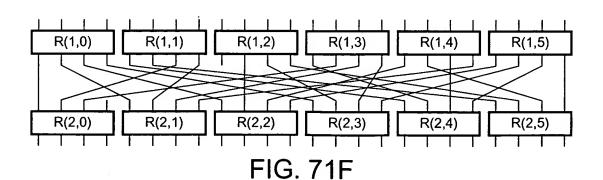


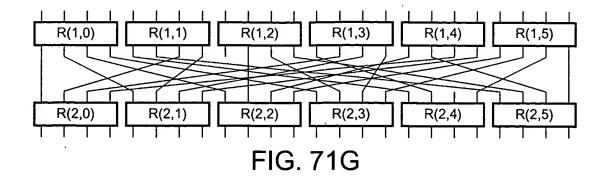
FIG. 71B

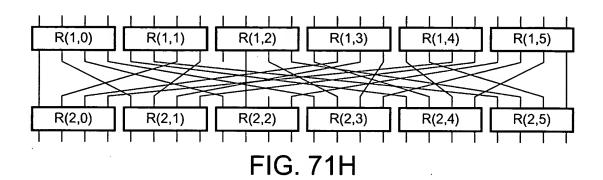


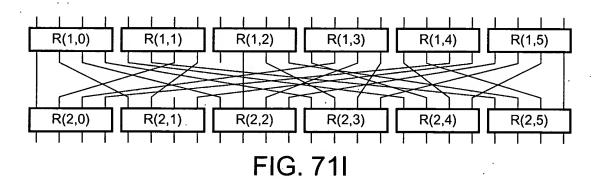












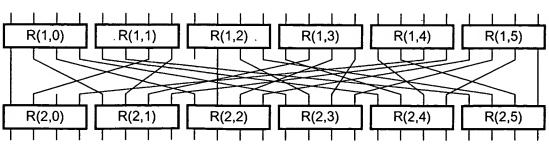
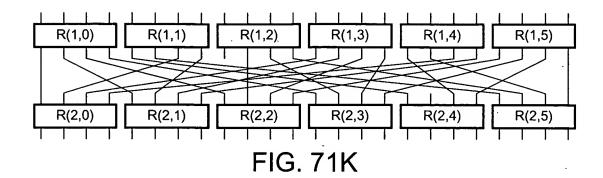
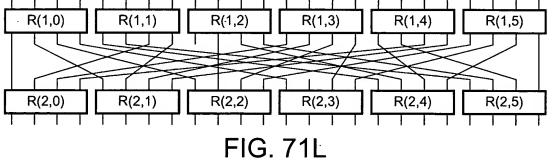


FIG. 71J



) R(1,2) R(1,3) R(1,4)



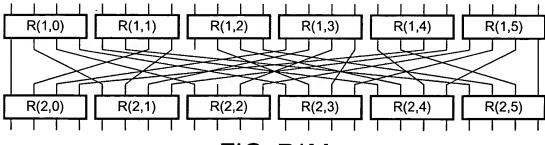


FIG. 71M

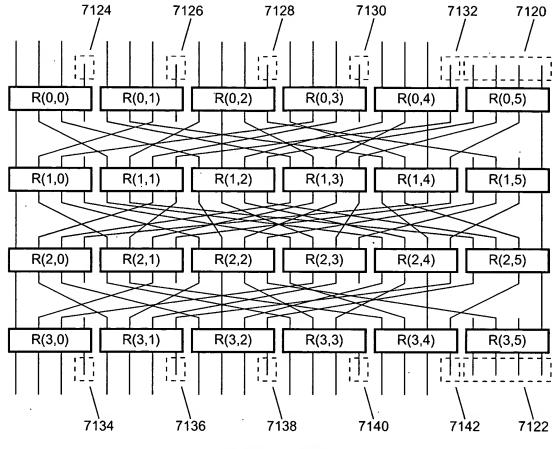
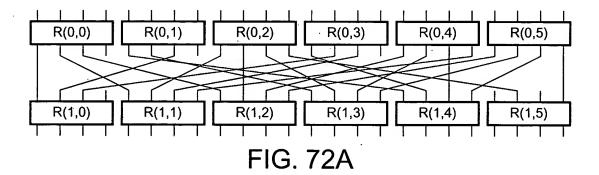


FIG. 71N



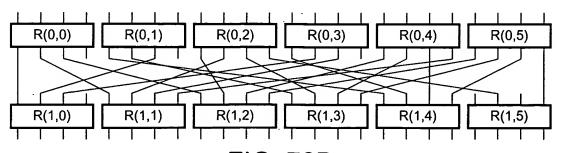
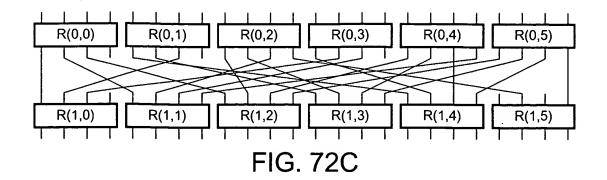
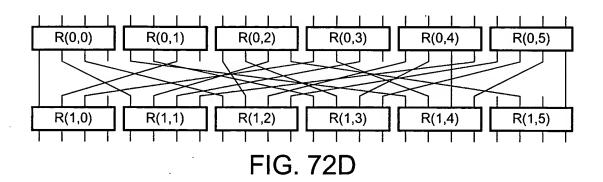
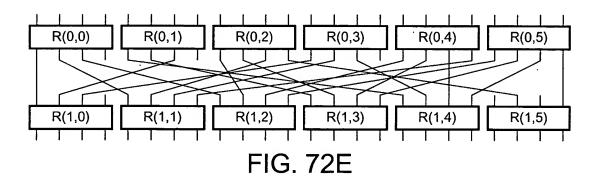


FIG. 72B







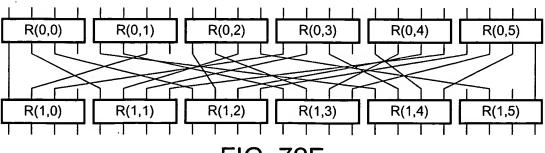
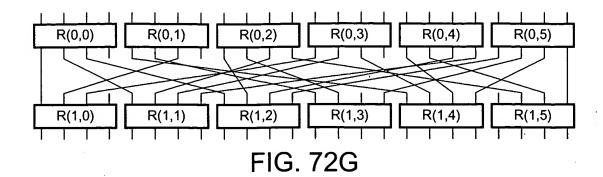
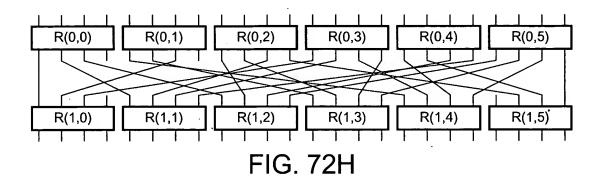
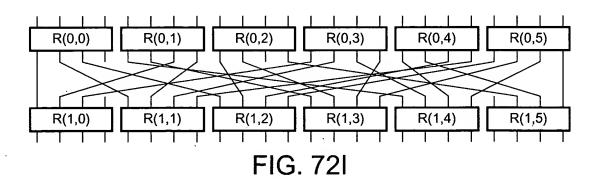


FIG. 72F







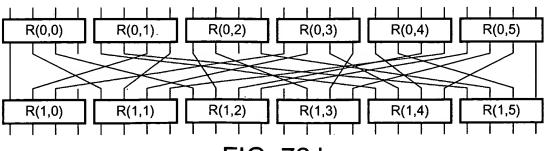
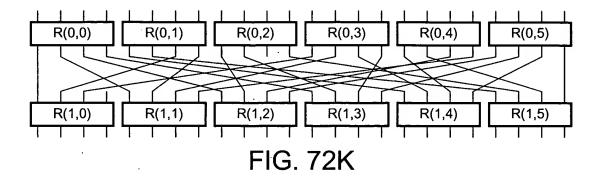
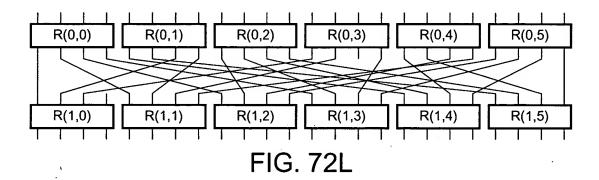


FIG. 72J





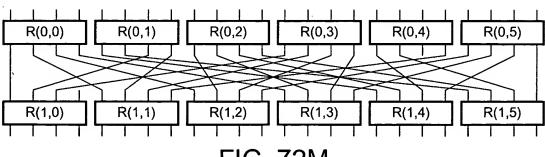
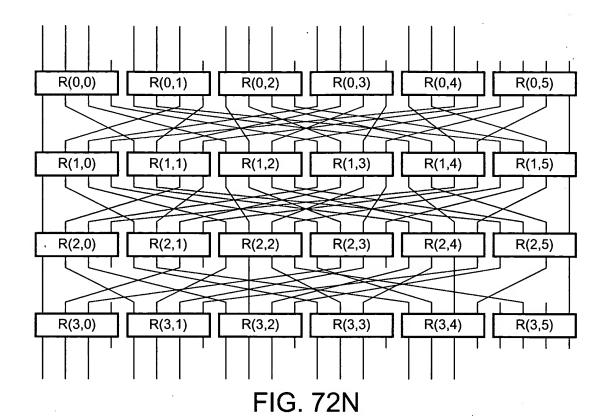
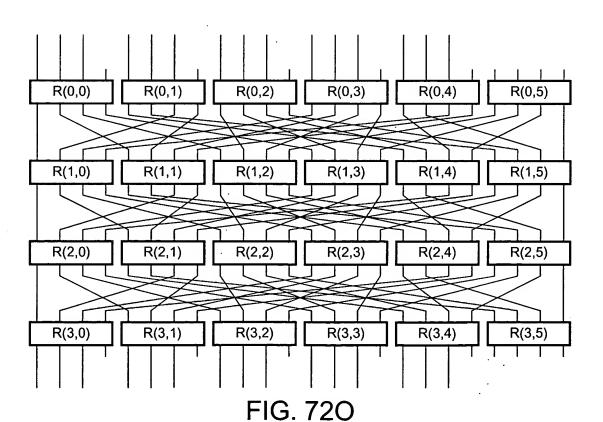


FIG. 72M





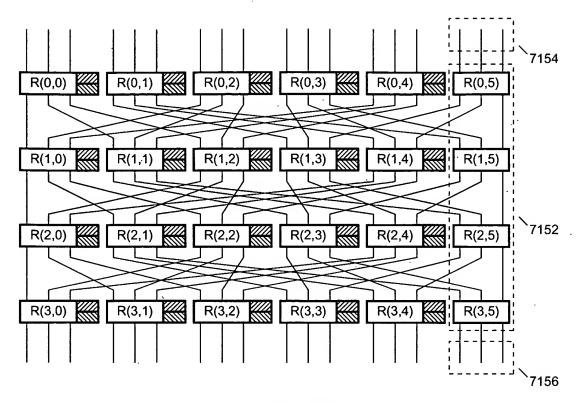


FIG. 73

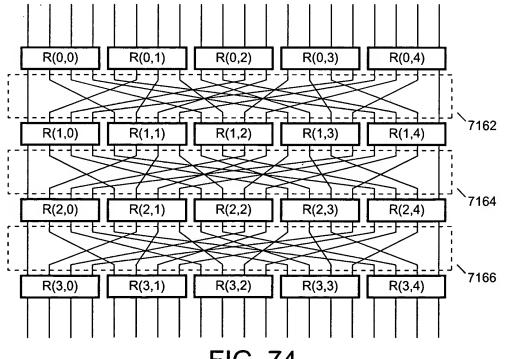
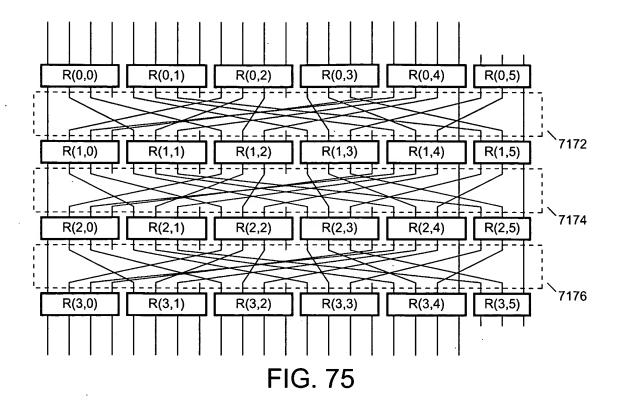
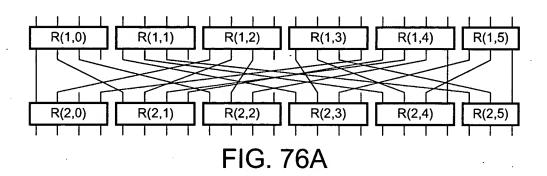
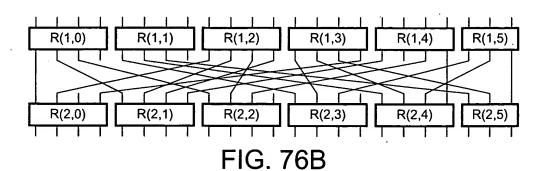
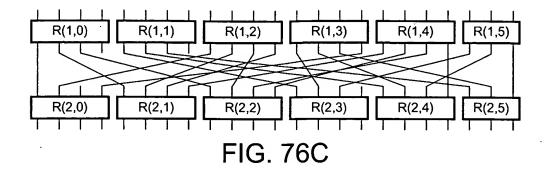


FIG. 74

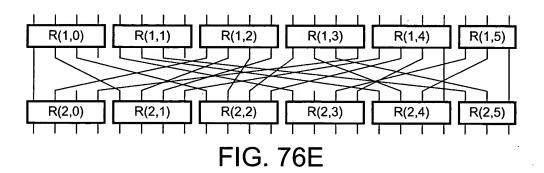








R(1,0) R(1,1) R(1,2) R(1,3) R(1,4) R(1,5) R(2,0) R(2,1) R(2,2) R(2,3) R(2,4) R(2,5) FIG. 76D



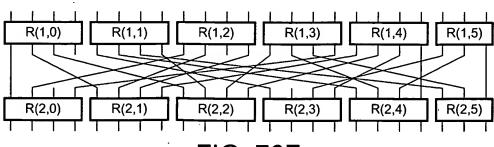
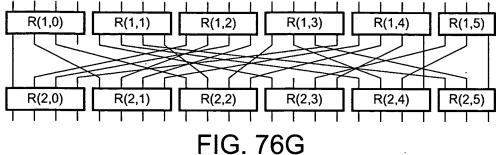


FIG. 76F



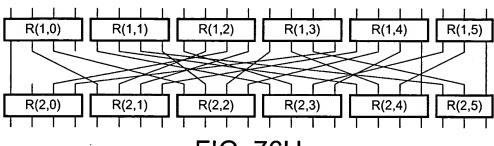
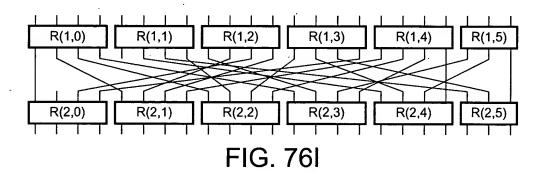


FIG. 76H



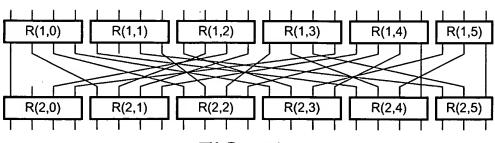
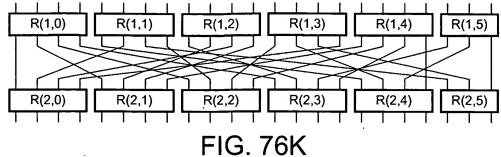
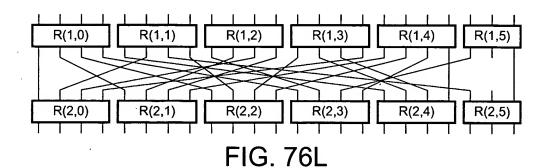
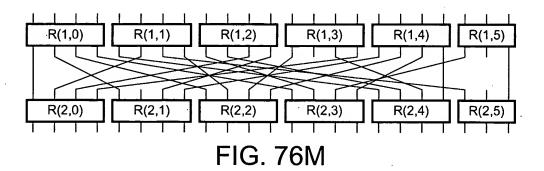


FIG. 76J







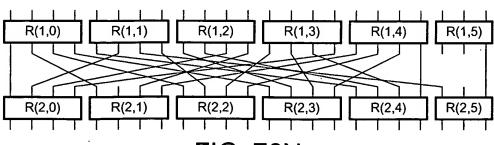
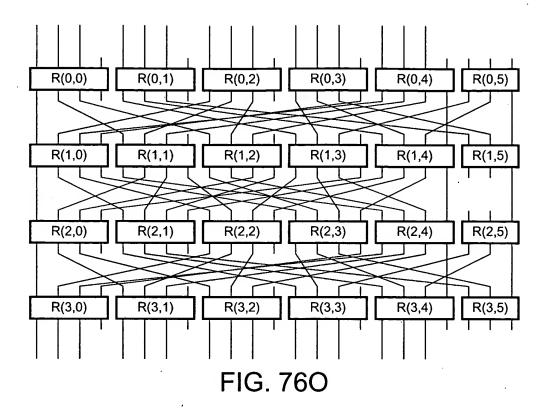
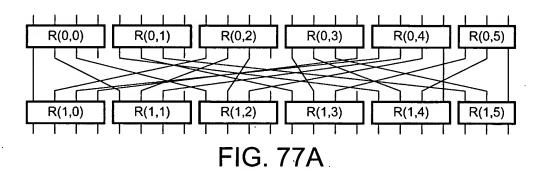
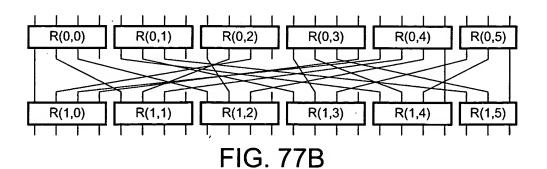
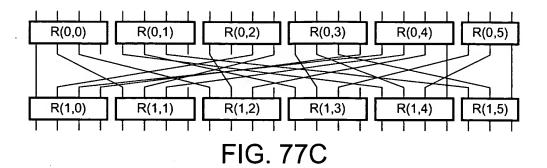


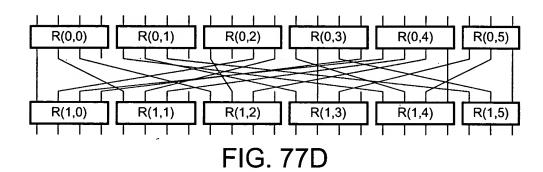
FIG. 76N

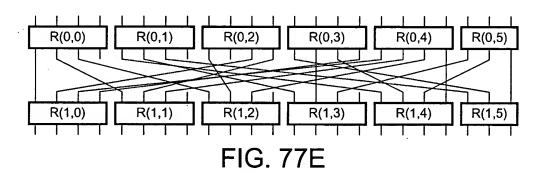












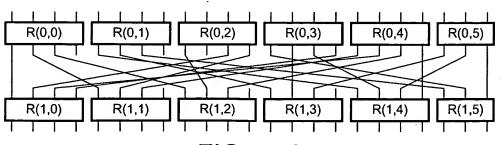
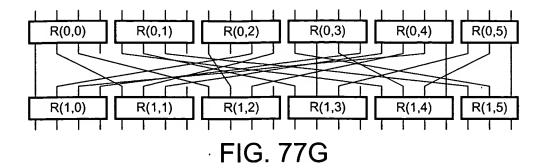
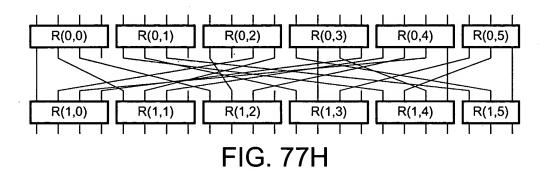
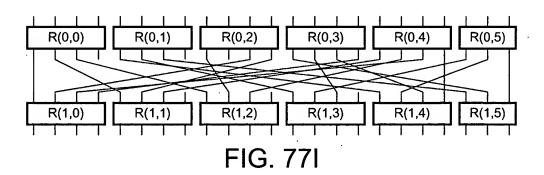


FIG. 77F







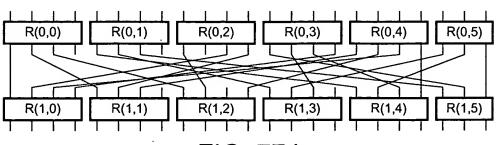
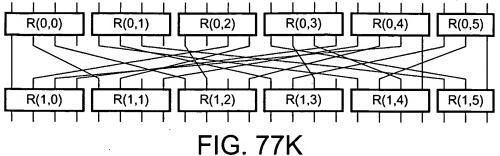


FIG. 77J



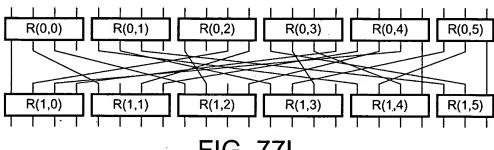
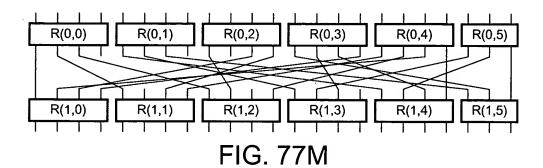


FIG. 77L



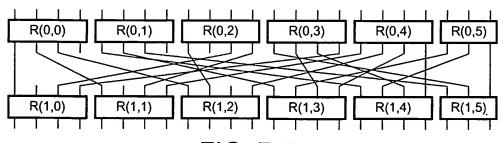
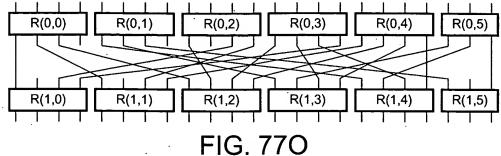
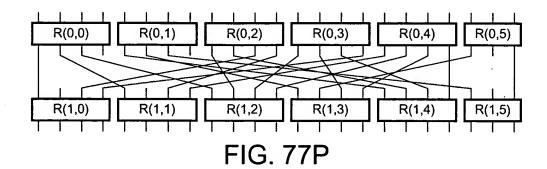
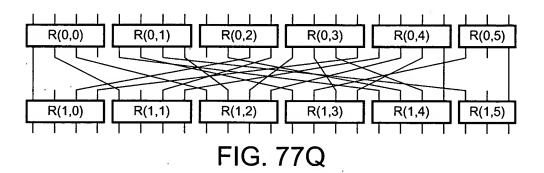


FIG. 77N







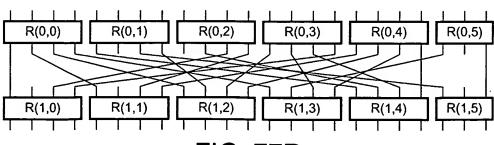
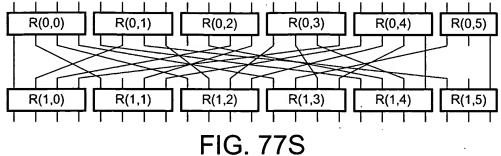


FIG. 77R.



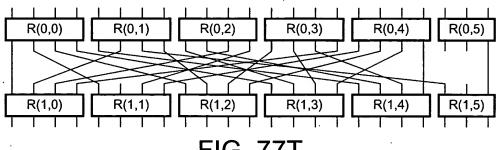


FIG. 77T

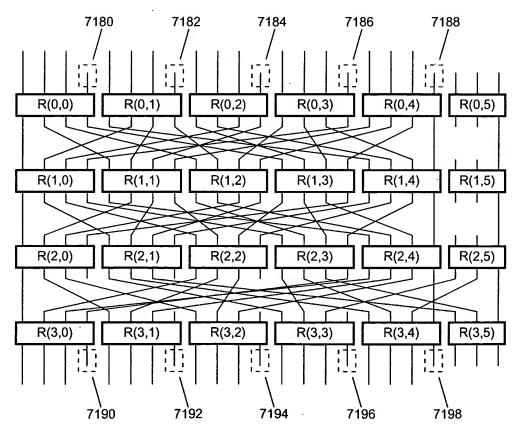


FIG. 77U

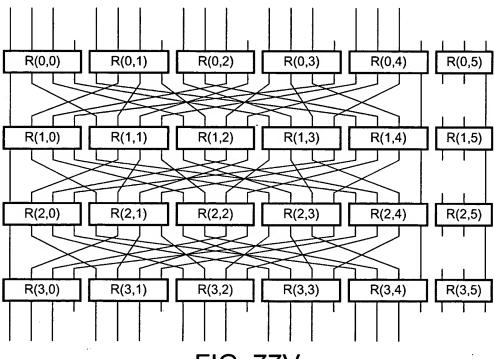
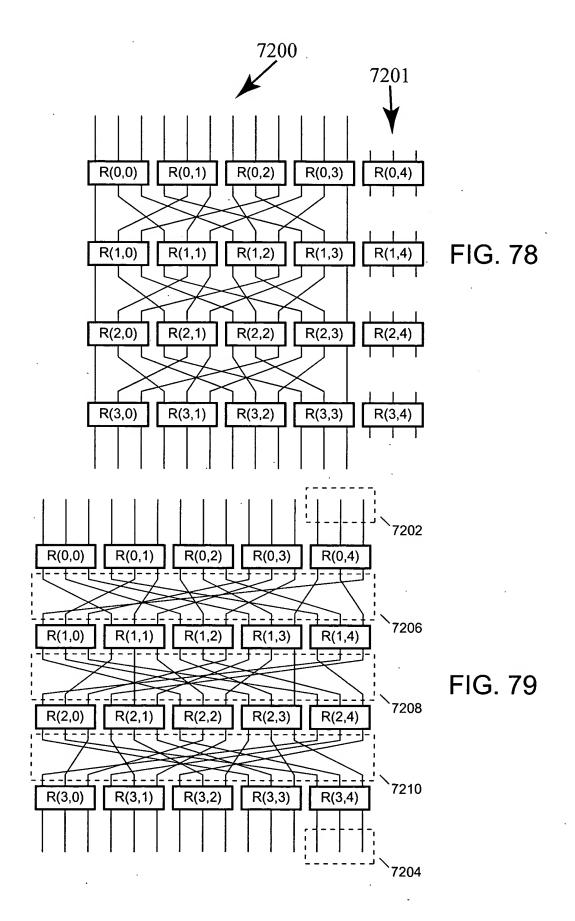
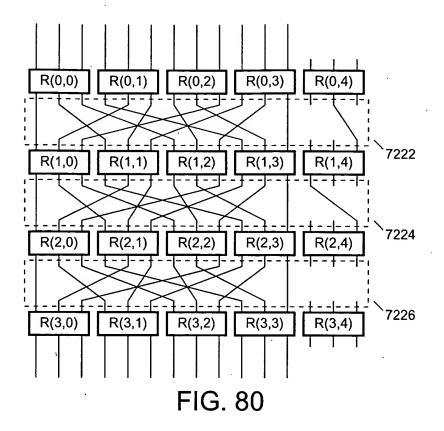
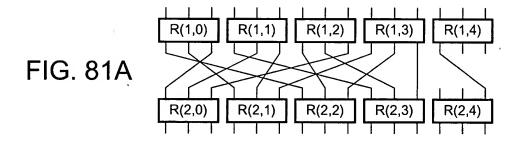
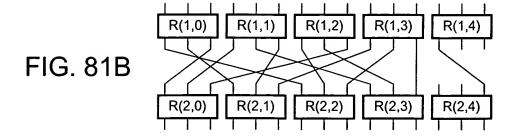


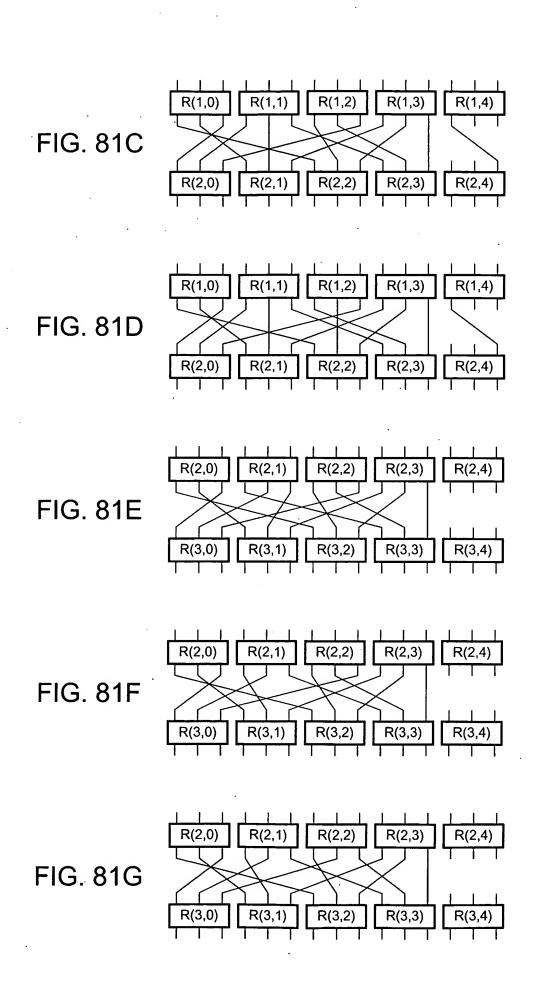
FIG. 77V

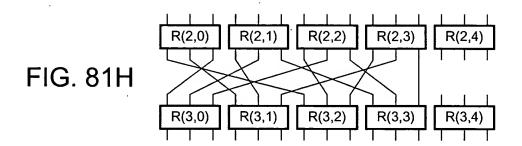


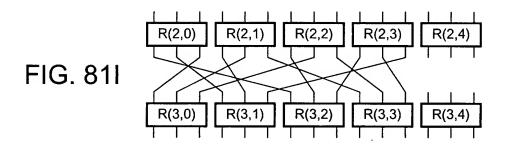












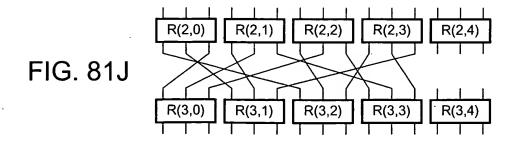
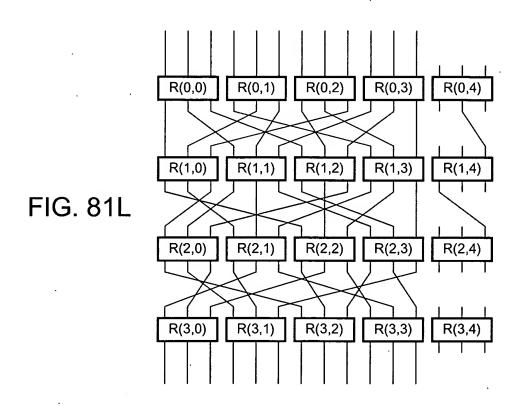
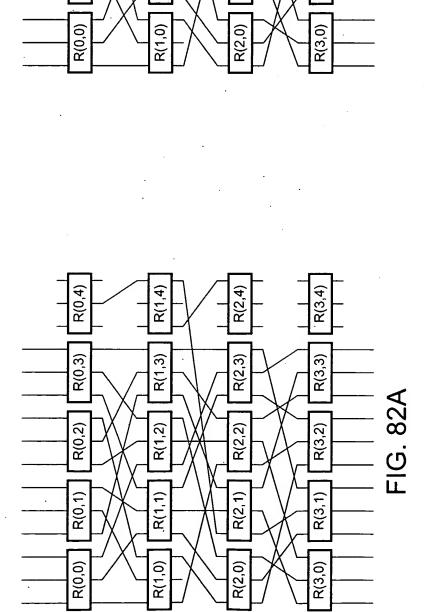


FIG. 81K





R(2,4)

R(2,3)

R(2,2)

R(2,1)

R(3,4)

R(3,3)

R(3,2)

R(3,1)

R(1,4)

R(1,3)

R(1,2)

R(1,1)

R(0,4)

R(0,3)

R(0,2)

R(0,1)

FIG. 82B

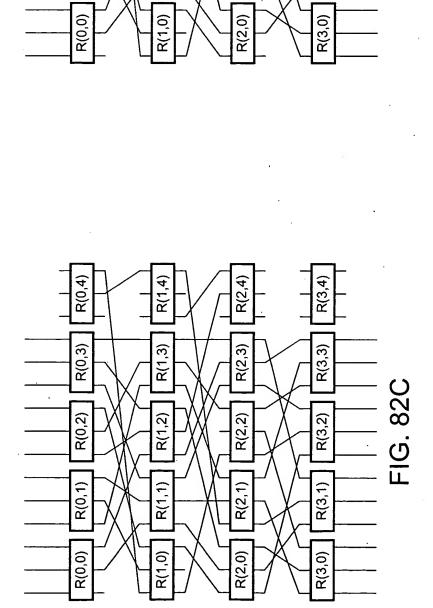


FIG. 82D

R(3,4)

R(3,3)

R(3,2)

R(3,1)

R(0,4)

R(0,3)

R(0,2)

R(0,1)

R(1,4)

R(1,3)

R(1,2)

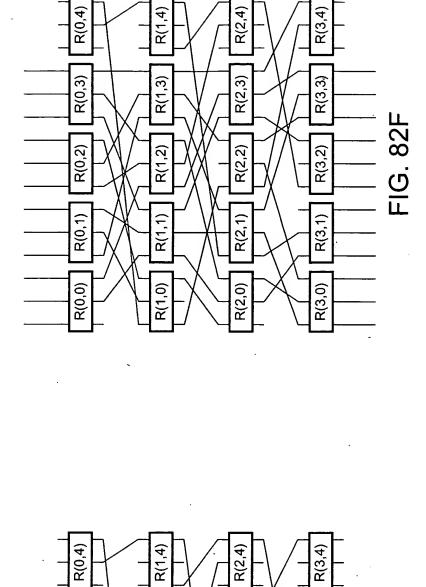
R(1,1)

R(2,4)

R(2,3)

R(2,2)

R(2,1)



R(2,3).

R(2,2)

R(2,1)

R(2,0)

R(3,3)

R(3,2)

R(3,1)

R(3,0)

R(1,3)

R(1,2)

R(1,1)

R(1,0)

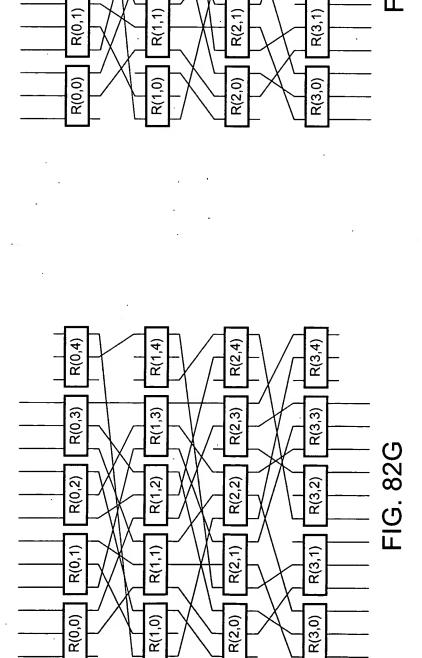
R(0,3)

R(0,2)

R(0,1)

R(0,0)

FIG. 82E



R(0,4)

R(0,3)

R(0,2)

R(1,4)

R(1,3)

R(1,2)

R(2,4)

R(2,3)

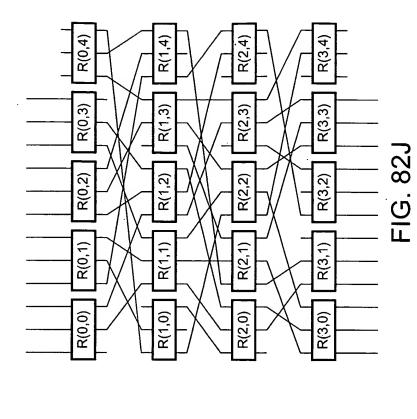
R(2,2)

R(3,4)

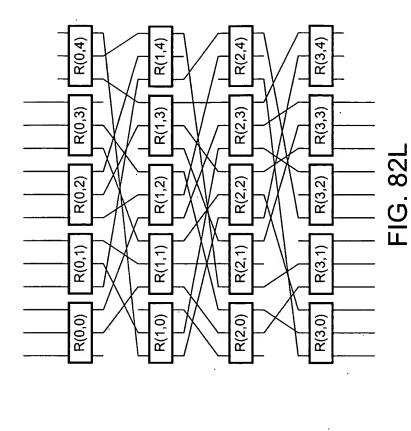
R(3,3)

R(3,2)

FIG. 82H



R(0,4) R(1,4) R(2,4) R(3,4) R(2,3) R(0,3) R(1,3) R(3,3) FIG. 821 R(0,2)R(1,2) R(2,2) R(3,2) R(0,1) R(3,1) R(1,1) R(2,1) R(0,0) R(3,0) R(1,0) R(2,0)



R(0,4)

R(0,3)

R(0,2)

R(0,1)

R(0,0)

R(1,4)

R(1,3)

R(1,2)

R(1,1)

R(1,0)

R(2,4)

R(2,3)

R(2,2)

R(2,1)

R(2,0)

R(3,4)

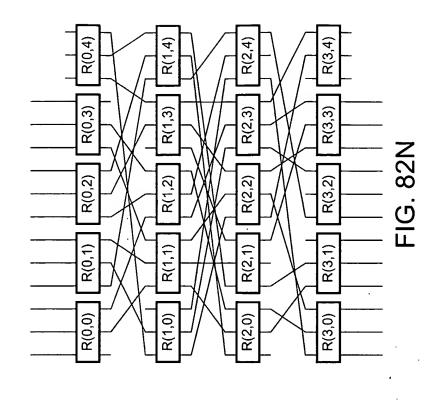
R(3,3)

R(3,2)

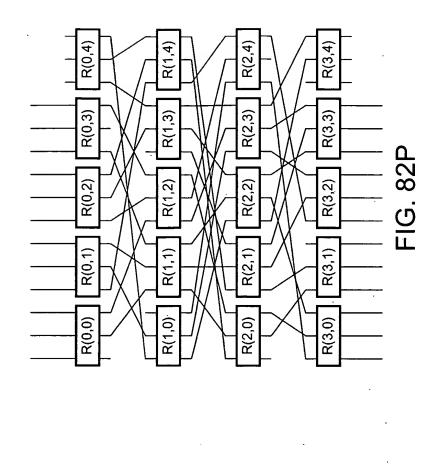
R(3,1)

R(3,0)

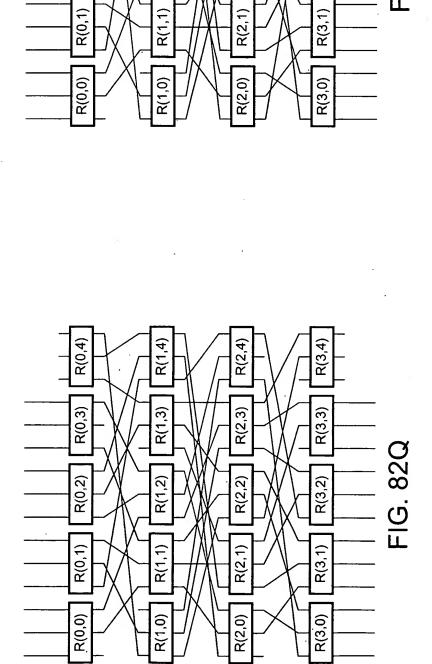
FIG. 82K



R(0,4) R(1,4) R(2,4) R(3,4) R(2,3) R(3,3) R(0,3) R(1,3) FIG. 82M R(0,2)R(3,2) R(1,2) R(2,2) R(0,1) R(3,1) R(2,1) R(1,1) R(0,0) R(1,0) R(2,0) R(3,0)



R(0,4) R(1,4) R(2,4) R(3,4) R(2,3) R(3,3) R(0,3) R(1,3) FIG. 820 R(0,2) R(3,2) R(1,2) R(2,2) R(2,1) R(3,1) R(0,1) R(1,1) R(0,0) R(1,0) R(2,0) R(3,0)



R(2,4)

R(2,3)

R(2,2)

R(3,4)

R(3,3)

R(3,2)

R(1,4)

R(1,3)

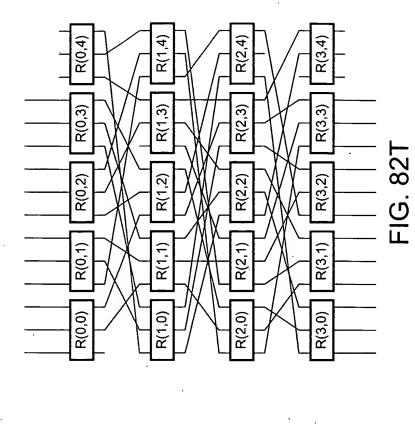
R(1,2)

R(0,4)

R(0,3)

R(0,2)

FIG. 82R



R(0,4)

R(0,3)

R(0,2)

R(0,1)

R(0,0)

R(1,4)

R(1,3)

R(1,2)

R(1,1)

R(1,0)

R(2,4)

R(2,3)

R(2,2)

R(2,1)

R(2,0)

R(3,4)

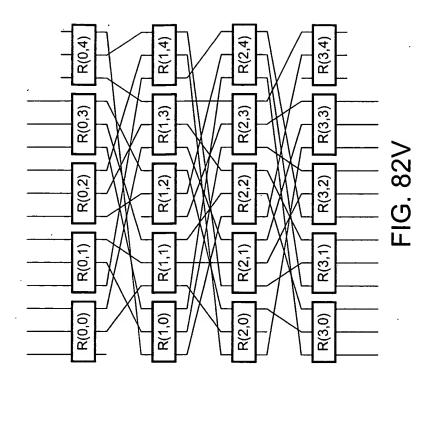
R(3,3)

R(3,2)

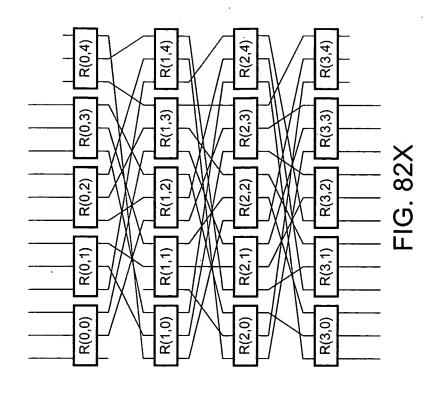
R(3,1)

R(3,0)

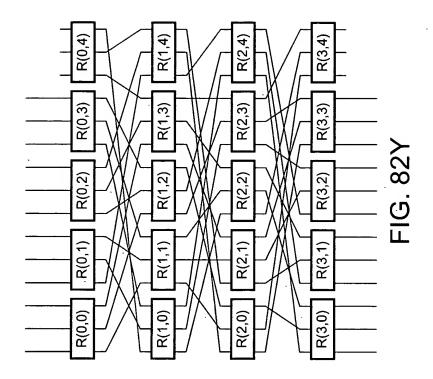
FIG. 82S



R(0,4) R(2,4) R(1,4) R(3,4) R(2,3) R(1,3) R(0,3) R(3,3) FIG. 821 R(0,2) R(2,2) R(1,2) R(3,2) R(0,1) R(1,1) R(2,1) R(3,1) R(0,0) R(1,0) R(2,0) R(3,0)



R(0,4) R(2,4) R(1,4) R(3,4) R(2,3) R(0,3) R(3,3) R(1,3) FIG. 82W R(0,2) R(1,2) R(2,2) R(3,2) R(0,1) R(2,1) R(3,1) R(1,1) R(0,0) R(2,0) R(3,0) R(1,0)



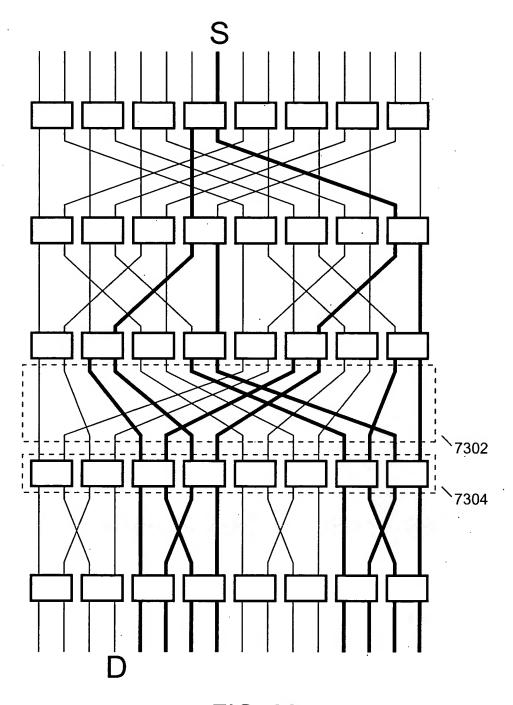
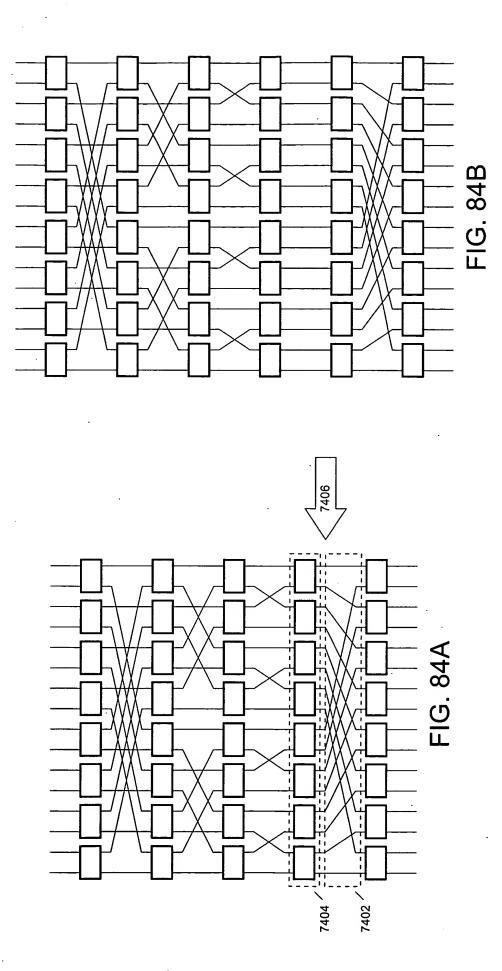
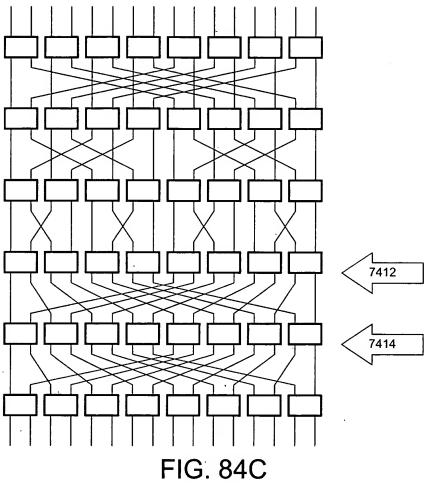
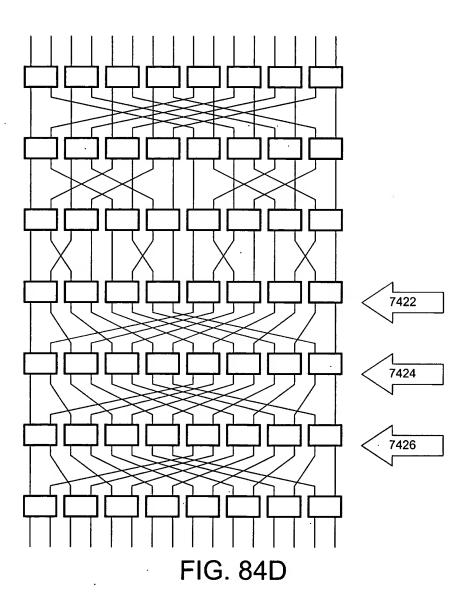
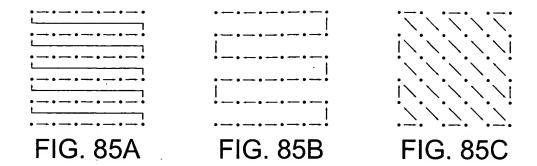


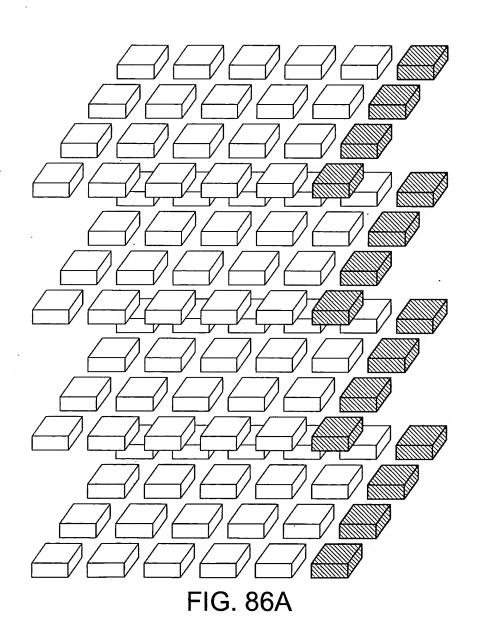
FIG. 83











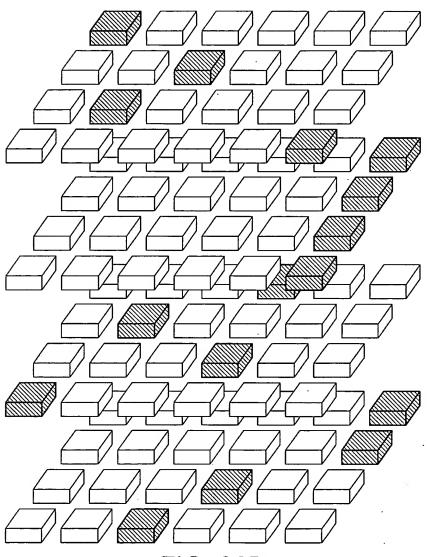


FIG. 86B

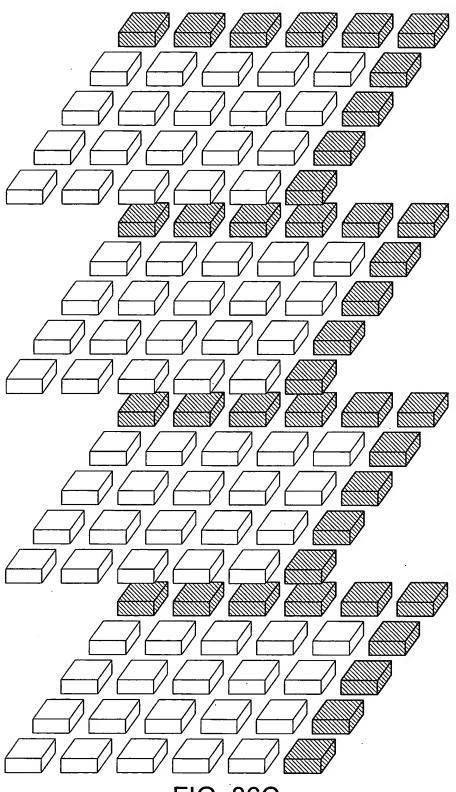


FIG. 86C

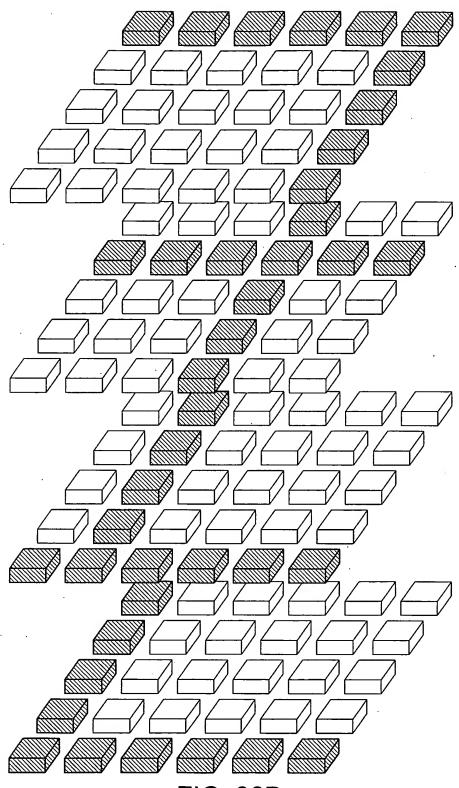


FIG. 86D

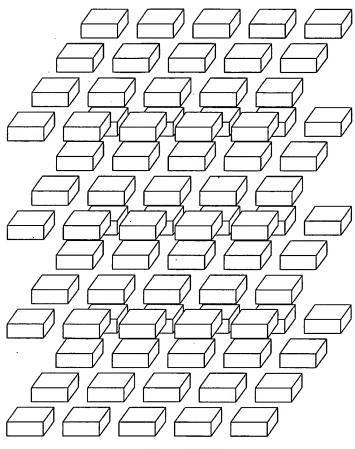


FIG. 87A

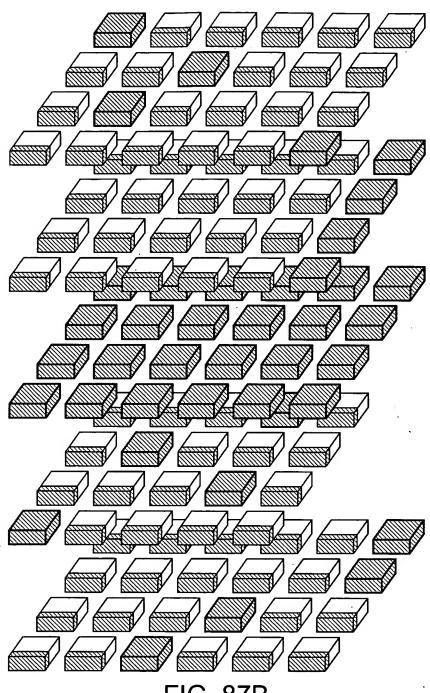
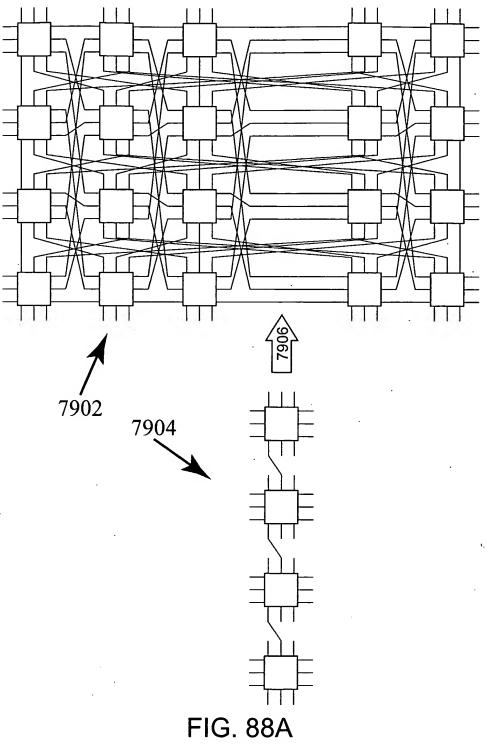


FIG. 87B



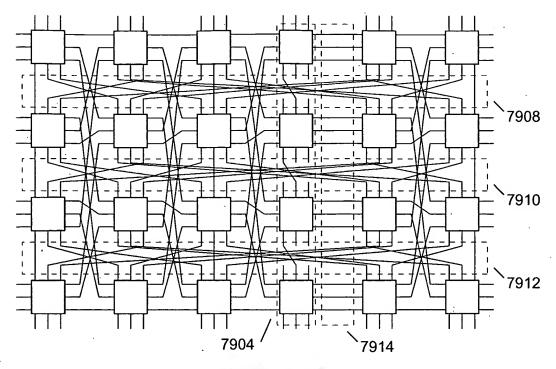
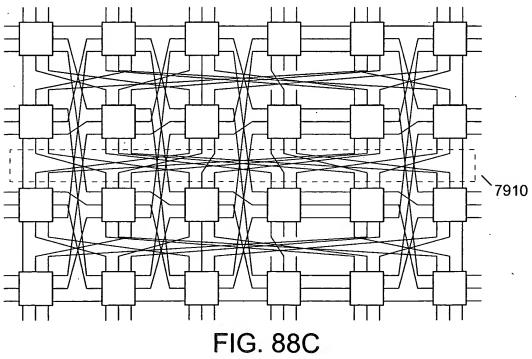
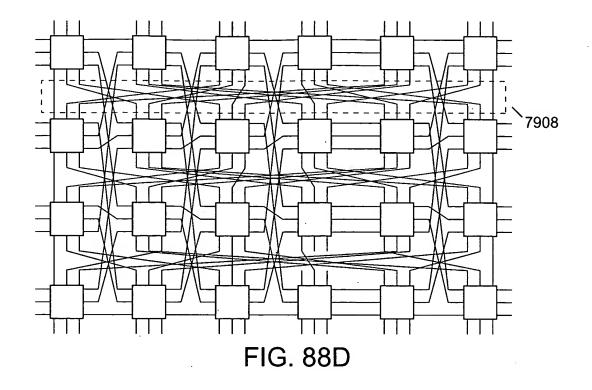
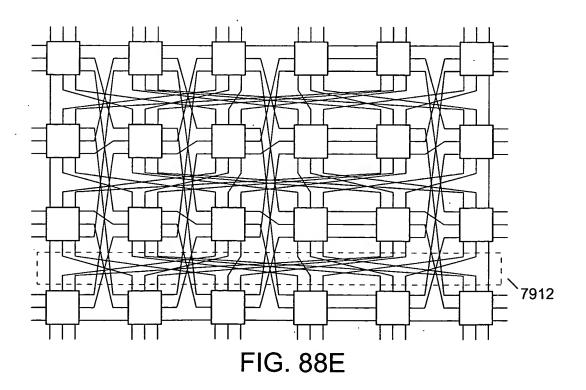


FIG. 88B







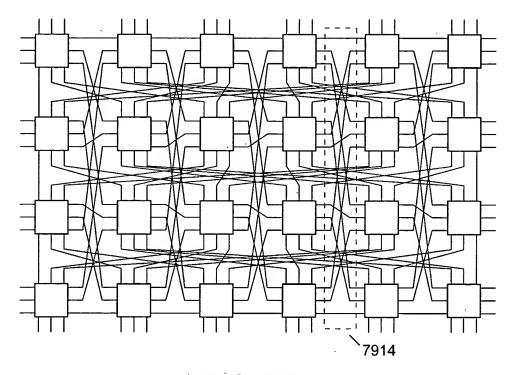
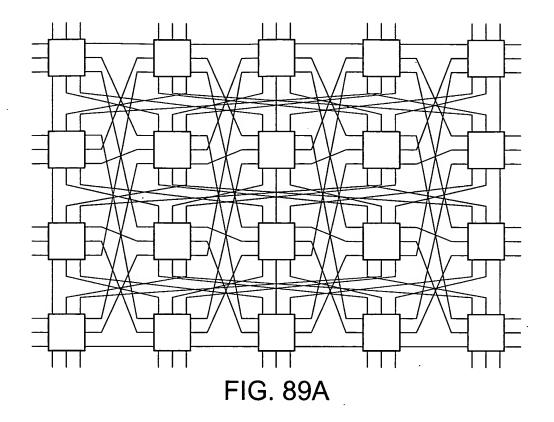
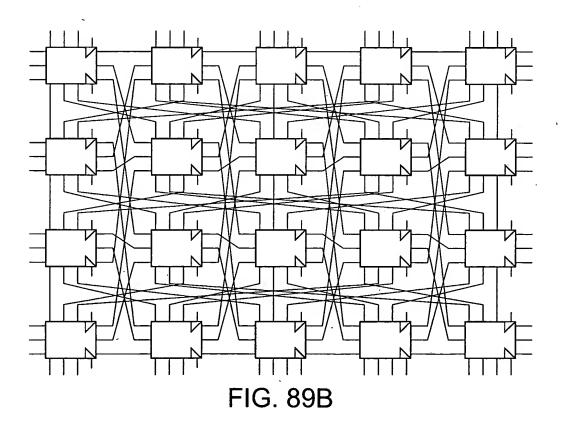


FIG. 88F





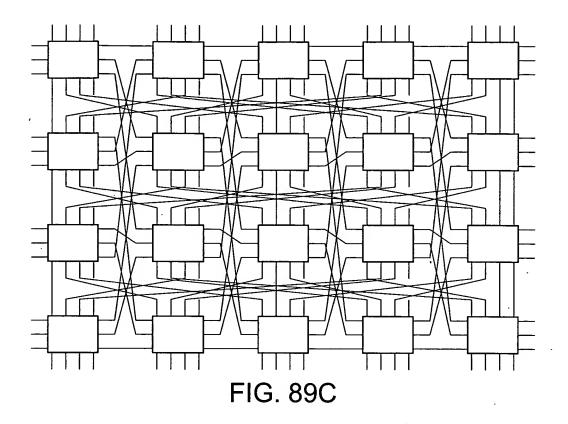
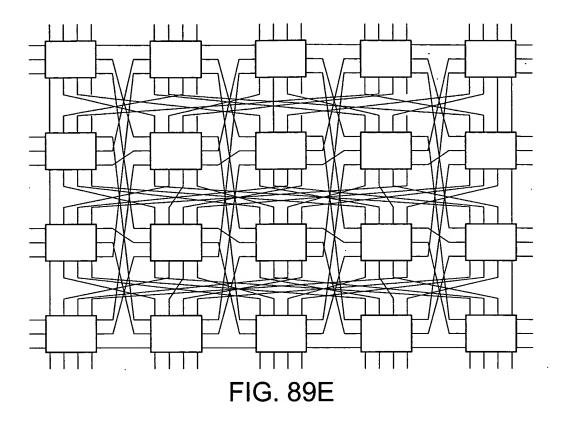
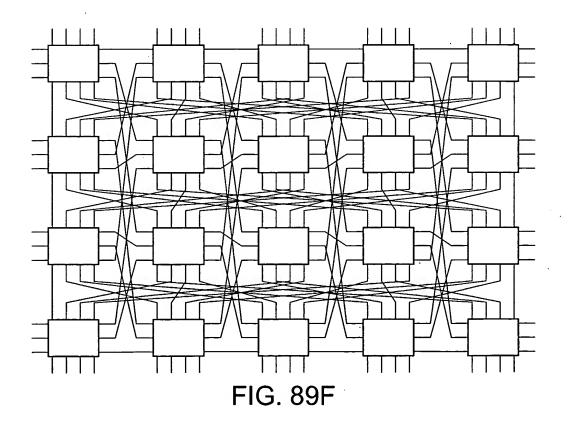
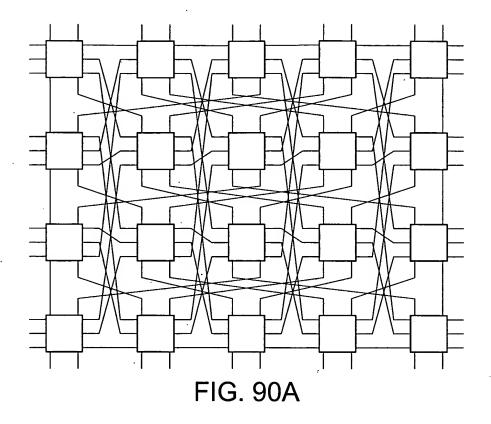
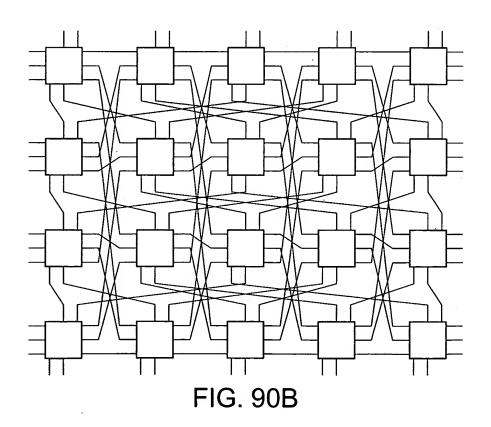


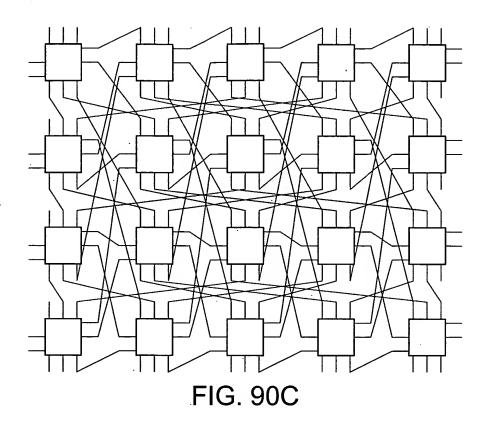
FIG. 89D

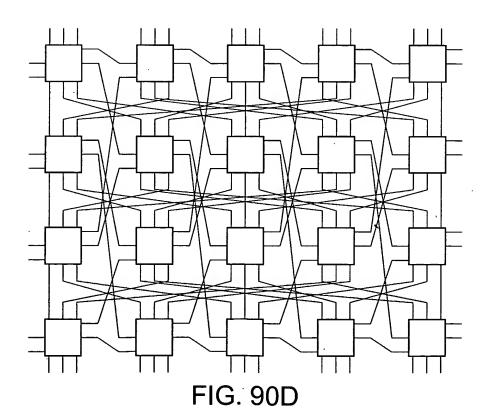












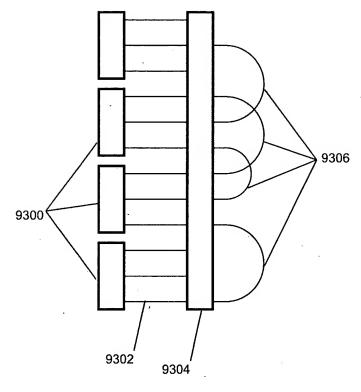
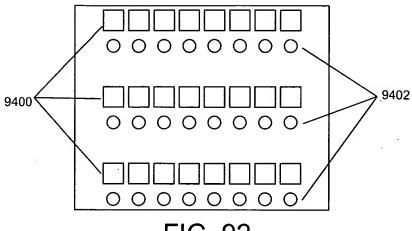
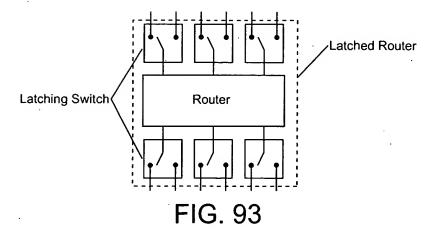


FIG. 91







```
at the port disconnected;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         verify correct connection is made, otherwise indicate "error" on that port;
                                                                                                                                                                                                                                                                                               verify correct connection is made, otherwise indicate "error" on both ports;
                                                                                                                  if a completely new connection is to be made between two vacant ports
                                                                                                                                                                                                                                                                                                                                                                                                               if connection needs to be broken select a port to disconnect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if technician disconnected wrong port indicate "error"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 wait until technician has disconnected the connector;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       indicate the light for desired port to "disconnect";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      indicate port light to be connected with "connect";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 wait until technician has made the connection;
                                                                                                                                                                                                                                 wait until technician has made the connection;
                                                                                                                                                                          indicate both port lights with "connect";
                                                          determine next connection to be established;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               connection can be made
repeat until done
```

FIG. 94

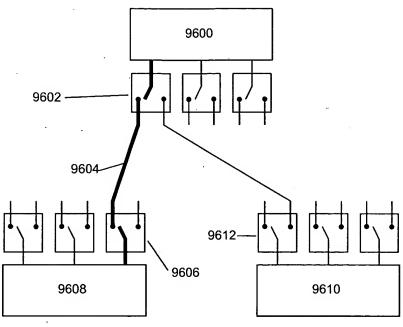


FIG. 95A

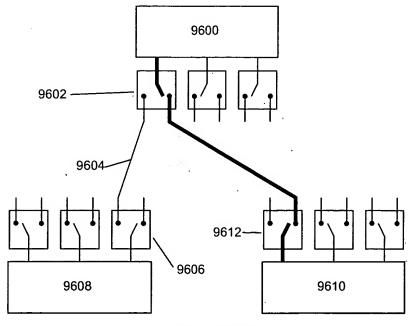


FIG. 95B

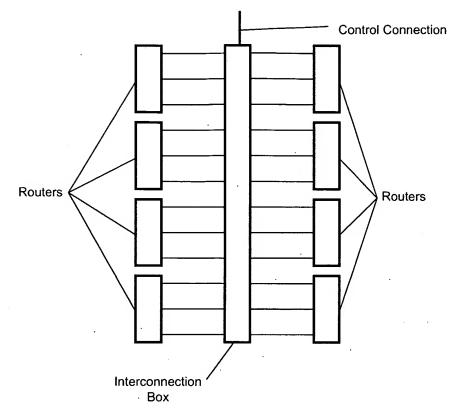
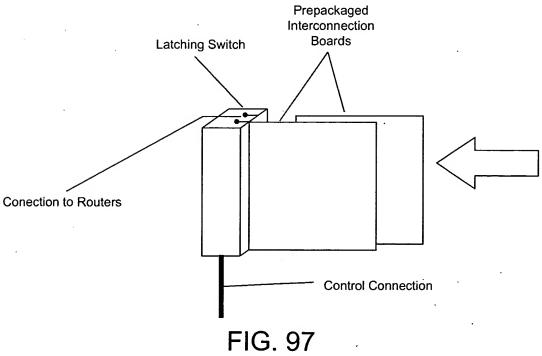


FIG. 96



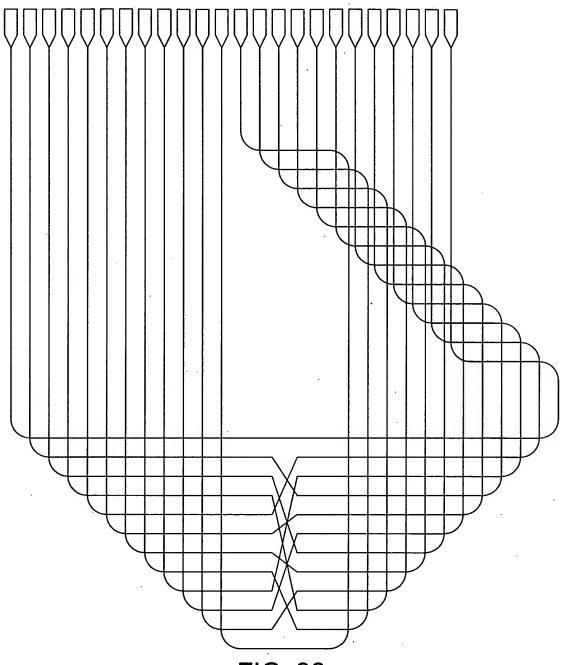
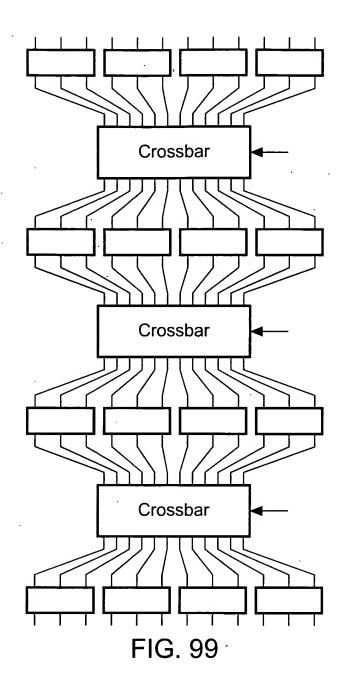


FIG. 98



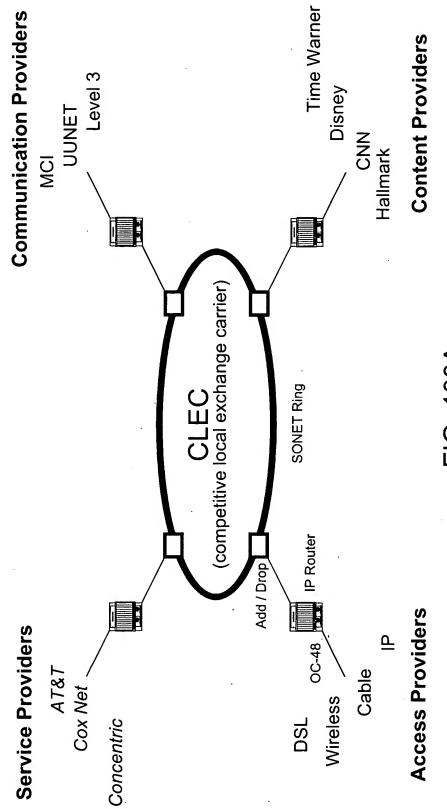


FIG. 100A

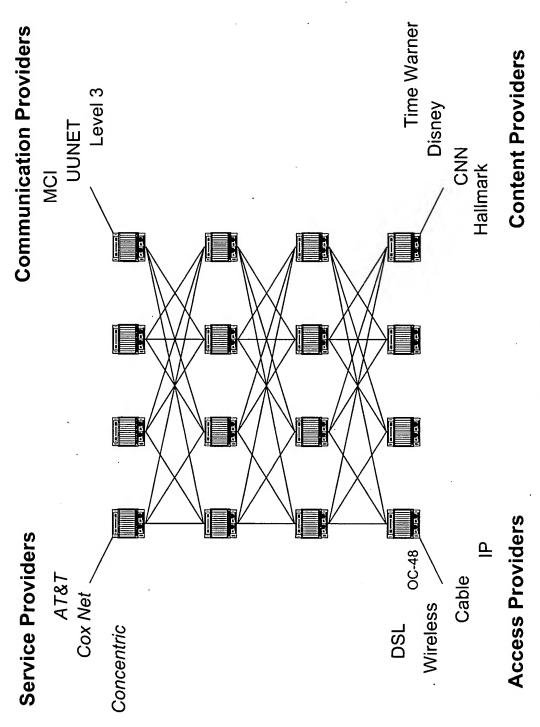
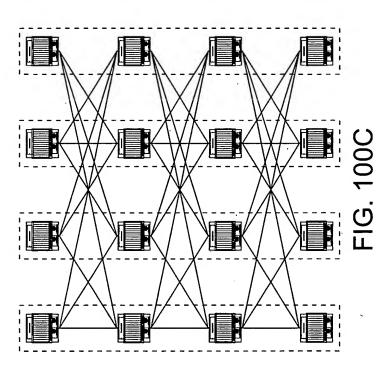
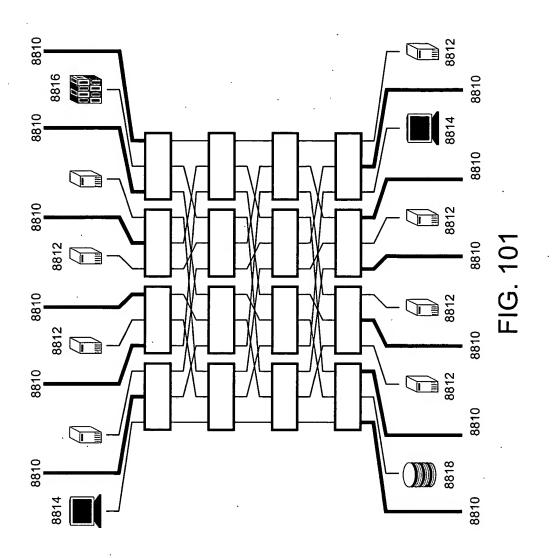
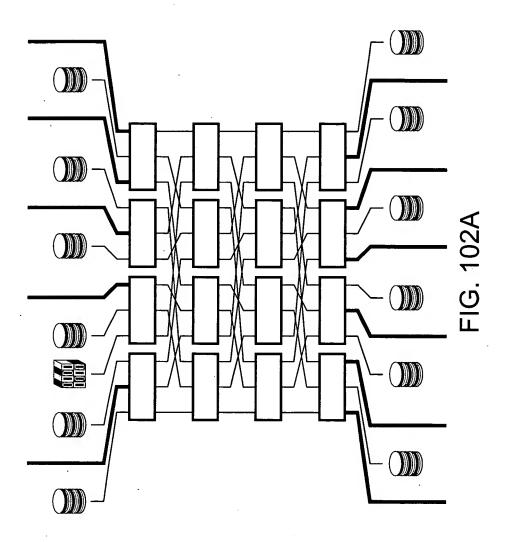
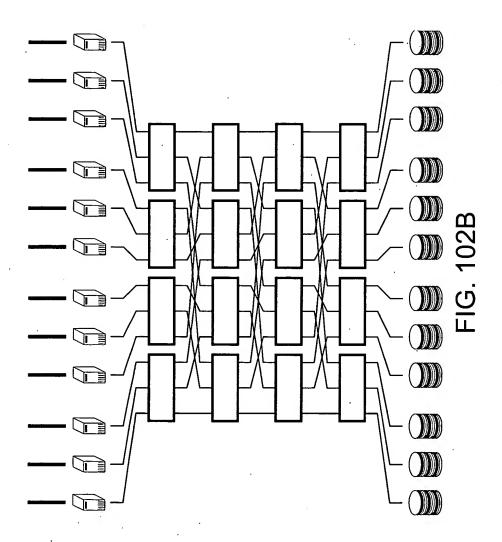


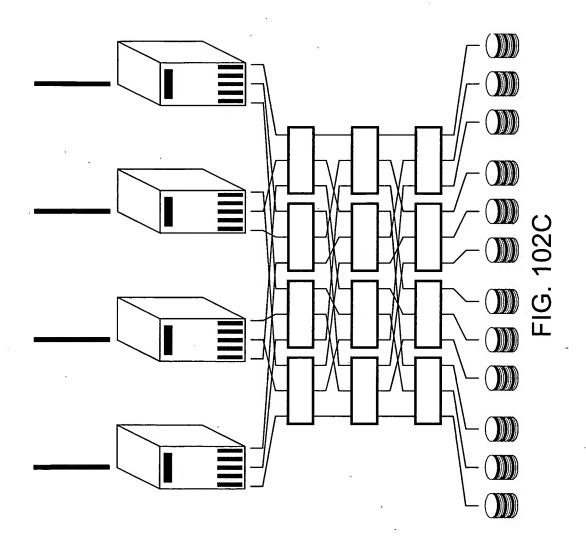
FIG. 100B

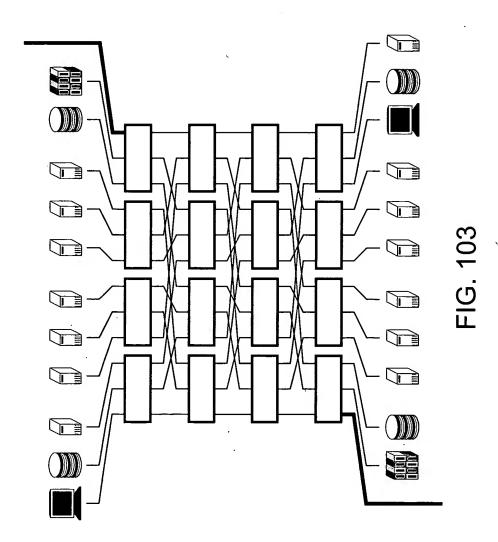












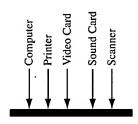


FIG. 104A

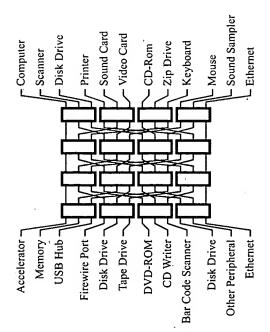


FIG. 104B

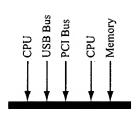


FIG. 105A

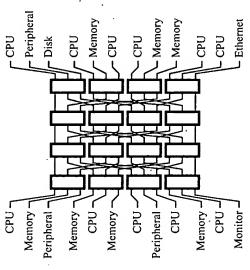


FIG. 105B